API Well Number: 43013524160000

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

## APPLICATION FOR PERMIT TO DRILL

**1. WELL NAME and NUMBER**
GMBU K-6-9-16

**2. TYPE OF WORK**
DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○

**3. FIELD OR WILDCAT**
MONUMENT BUTTE

**4. TYPE OF WELL**
Oil Well Coalbed Methane Well: NO

**5. UNIT or COMMUNITIZATION AGREEMENT NAME**
GMBU (GRRV)

**6. NAME OF OPERATOR**
NEWFIELD PRODUCTION COMPANY

**7. OPERATOR PHONE**
435 646-4825

**8. ADDRESS OF OPERATOR**
Rt 3 Box 3630 , Myton, UT, 84052

**9. OPERATOR E-MAIL**
mcrozier@newfield.com

**10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)**
UTU-69744

**11. MINERAL OWNERSHIP**
FEDERAL ● INDIAN ○ STATE ○ FEE ○

**12. SURFACE OWNERSHIP**
FEDERAL ● INDIAN ○ STATE ○ FEE ○

**13. NAME OF SURFACE OWNER (if box 12 = 'fee')**

**14. SURFACE OWNER PHONE (if box 12 = 'fee')**

**15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')**

**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**

**17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')**

**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS**
YES ○ (Submit Commingling Application) NO ●

**19. SLANT**
VERTICAL ○ DIRECTIONAL ● HORIZONTAL ○

| 20. LOCATION OF WELL | FOOTAGES | QTR-QTR | SECTION | TOWNSHIP | RANGE | MERIDIAN |
|---|---|---|---|---|---|---|
| LOCATION AT SURFACE | 2135 FNL 675 FWL | SWNW | 5 | 9.0 S | 16.0 E | S |
| Top of Uppermost Producing Zone | 2558 FNL 273 FWL | SWNW | 5 | 9.0 S | 16.0 E | S |
| At Total Depth | 2336 FSL 120 FEL | NESE | 6 | 9.0 S | 16.0 E | S |

**21. COUNTY**
DUCHESNE

**22. DISTANCE TO NEAREST LEASE LINE (Feet)**
120

**23. NUMBER OF ACRES IN DRILLING UNIT**
20

**25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)**
709

**26. PROPOSED DEPTH**
MD: 6437 TVD: 6320

**27. ELEVATION - GROUND LEVEL**
5807

**28. BOND NUMBER**
WYB000493

**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE**
437478

### Hole, Casing, and Cement Information

| String | Hole Size | Casing Size | Length | Weight | Grade & Thread | Max Mud Wt. | Cement | Sacks | Yield | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| Surf | 12.25 | 8.625 | 0 - 300 | 24.0 | J-55 ST&C | 8.3 | Class G | 138 | 1.17 | 15.8 |
| Prod | 7.875 | 5.5 | 0 - 6437 | 15.5 | J-55 LT&C | 8.3 | Premium Lite High Strength | 307 | 3.26 | 11.0 |
| | | | | | | | 50/50 Poz | 363 | 1.24 | 14.3 |

### ATTACHMENTS

**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☑ TOPOGRAPHICAL MAP

**NAME** Heather Calder **TITLE** Production Technician **PHONE** 435 646-4936

**SIGNATURE** **DATE** 08/22/2013 **EMAIL** hcalder@newfield.com

**API NUMBER ASSIGNED**
43013524160000

**APPROVAL**
Permit Manager

RECEIVED: September 04, 2013

NEWFIELD PRODUCTION COMPANY
GMBU K-6-9-16
AT SURFACE: SW/NW SECTION 5, T9S R16E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

| | |
|---|---|
| Uinta | 0' – 3,805' |
| Green River | 3,805' |
| Wasatch | 6,145' |
| **Proposed TD** | 6,436 (MD) 6,320' (TVD) |

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation (Oil) 3,805' – 6,145'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

| | |
|---|---|
| Location & Sampled Interval | Date Sampled |
| Flow Rate | Temperature |
| Hardness | pH |
| Water Classification (State of Utah) | Dissolved Calcium (Ca) (mg/l) |
| Dissolved Iron (Fe) (ug/l) | Dissolved Sodium (Na) (mg/l) |
| Dissolved Magnesium (Mg) (mg/l) | Dissolved Carbonate ($CO_3$) (mg/l) |
| Dissolved Bicarbonate ($NaHCO_3$) (mg/l) | Dissolved Chloride (Cl) (mg/l) |
| Dissolved Sulfate ($SO_4$) (mg/l) | Dissolved Total Solids (TDS) (mg/l) |

RECEIVED: August 22, 2013

## 4. *PROPOSED CASING PROGRAM*

**a. Casing Design: GMBU K-6-9-16**

| Size | Interval | | Weight | Grade | Coupling | Design Factors | | |
|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | | | | Burst | Collapse | Tension |
| Surface casing 8-5/8" | 0' | 300' | 24.0 | J-55 | STC | 2,950<br>17.53 | 1,370<br>14.35 | 244,000<br>33.89 |
| Prod casing 5-1/2" | 0' | 6,437' | 15.5 | J-55 | LTC | 4,810<br>2.35 | 4,040<br>1.97 | 217,000<br>2.18 |

Assumptions:
1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
2) Prod casing MASP (production mode) = Pore pressure – gas gradient
3) All collapse calculations assume fully evacuated casing w/ gas gradient
4) All tension calculations assume air weight

| | |
|---|---|
| Frac gradient at surface casing shoe = | 13.0 ppg |
| Pore pressure at surface casing shoe = | 8.33 ppg |
| Pore pressure at prod casing shoe = | 8.33 ppg |
| Gas gradient = | 0.115 psi/ft |

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

**b. Cementing Design: GMBU K-6-9-16**

| Job | Fill | Description | Sacks<br>$ft^3$ | OH Excess* | Weight (ppg) | Yield ($ft^3$/sk) |
|---|---|---|---|---|---|---|
| Surface casing | 300' | Class G w/ 2% CaCl | 138<br>161 | 30% | 15.8 | 1.17 |
| Prod casing Lead | 4,437' | Prem Lite II w/ 10% gel + 3% KCl | 307<br>999 | 30% | 11.0 | 3.26 |
| Prod casing Tail | 2,000' | 50/50 Poz w/ 2% gel + 3% KCl | 363<br>451 | 30% | 14.3 | 1.24 |

*Actual volume pumped will be 15% over the caliper log
- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4” hole will be drilled for the 8-5/8” surface casing. A 7-7/8” hole will be drilled for the 5-1/2” production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

## 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to ±300 feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ±300 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +-. A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

RECEIVED: August 22, 2013

bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the first quarter of 2014, and take approximately seven (7) days from spud to rig release.

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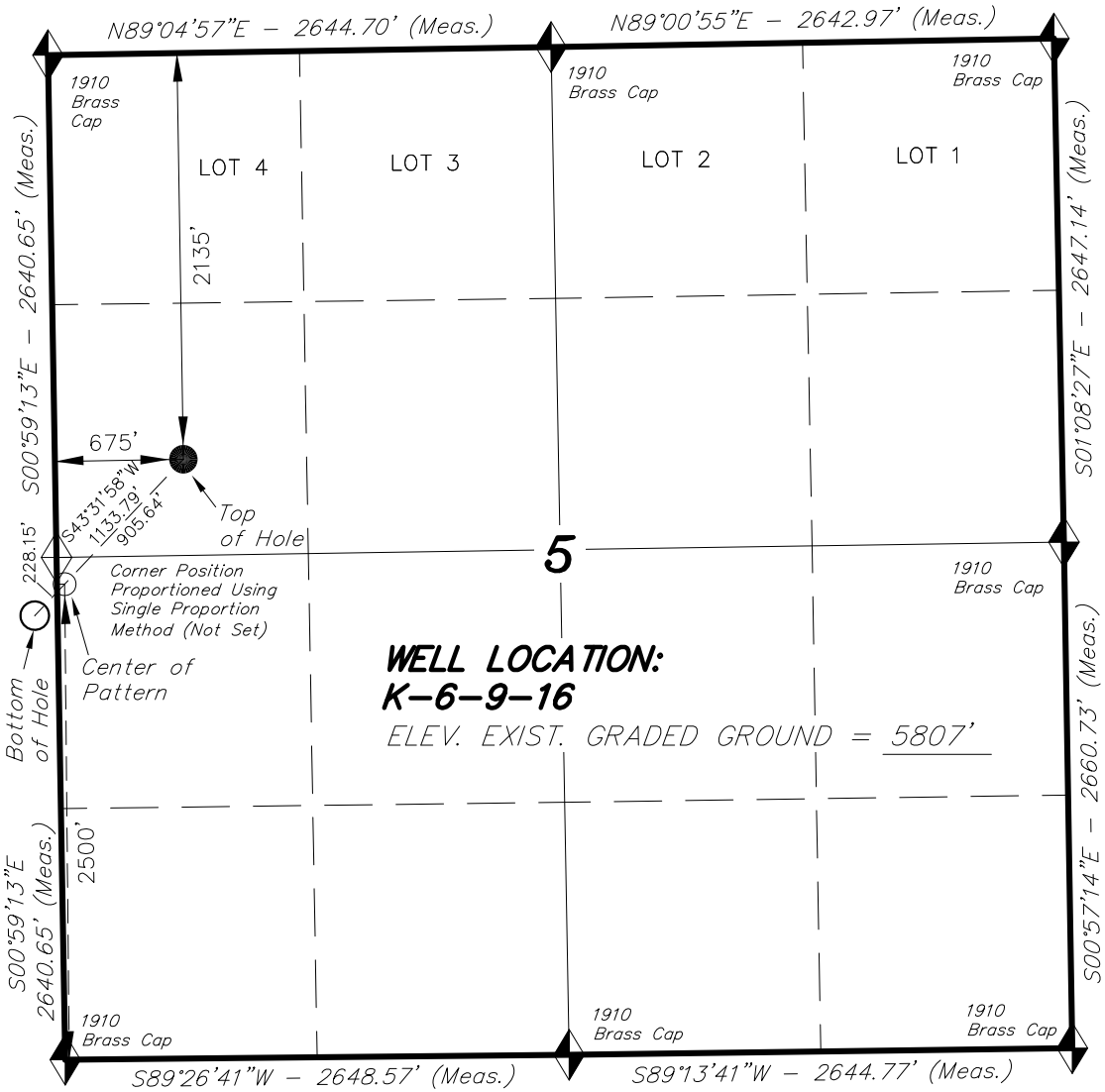
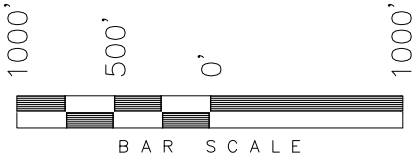
API Well Number: 43013524160000

# T9S, R16E, S.L.B.&M.




## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, K-6-9-16, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 5, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.





**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 2500' FSL & 40' FWL.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR No.189377 03-19-13 STACY W. STEWART STATE OF UTAH

STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. [illegible]
STATE OF UTAH

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

| NAD 83 (SURFACE LOCATION) |
|---|
| LATITUDE = 40°03'40.74" LONGITUDE = 110°09'01.09" |
| **NAD 27 (SURFACE LOCATION)** |
| LATITUDE = 40°03'40.88" LONGITUDE = 110°08'58.54" |
| **NAD 83 (CENTER OF PATTERN)** |
| LATITUDE = 40°03'34.35" LONGITUDE = 110°09'09.24" |
| **NAD 27 (CENTER OF PATTERN)** |
| LATITUDE = 40°03'34.48" LONGITUDE = 110°09'06.69" |


**TRI STATE LAND SURVEYING & CONSULTING**
180 NORTH VERNAL AVE. – VERNAL, UTAH 84078
(435) 781-2501

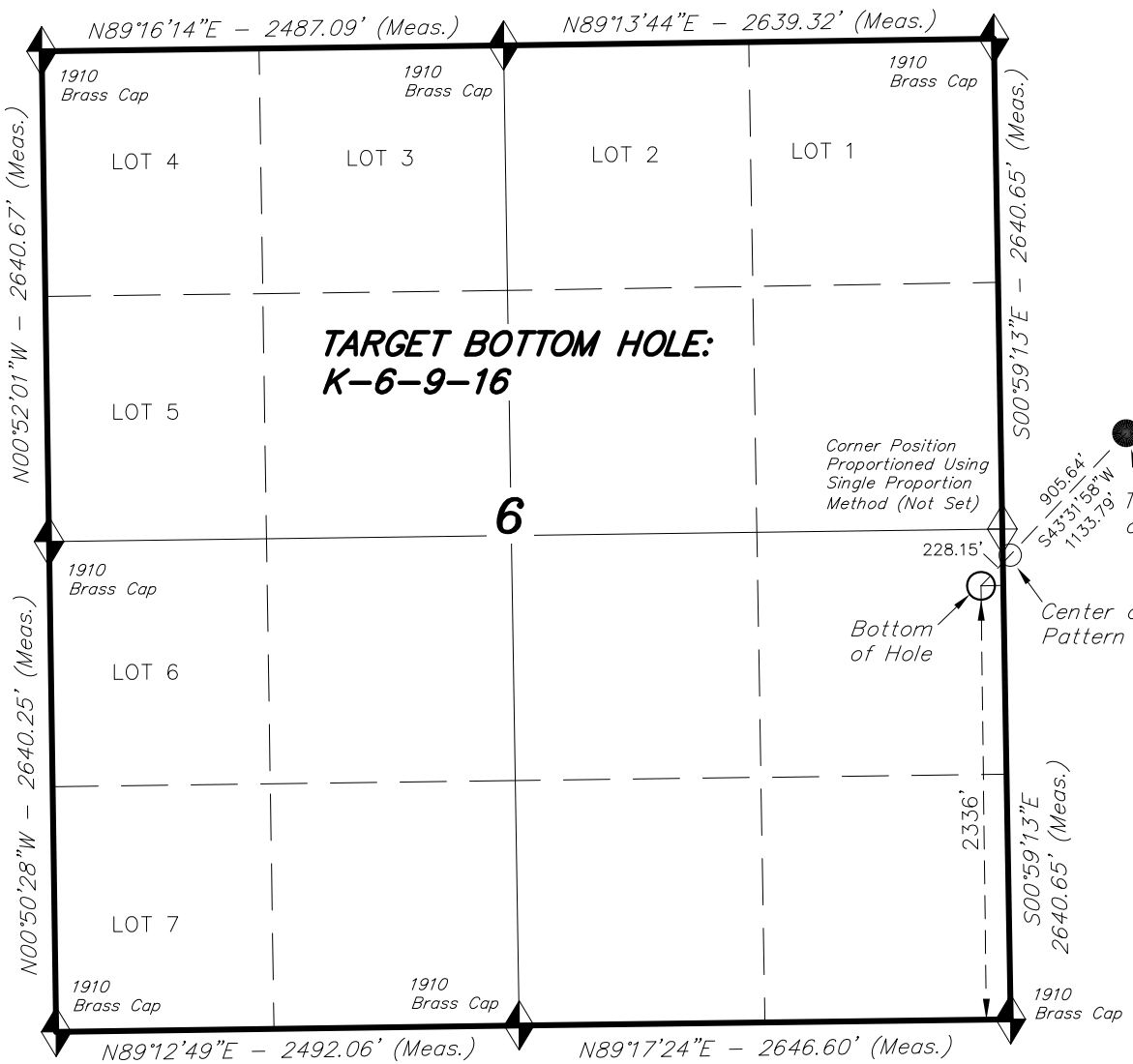

| | | |
|---|---|---|
| DATE SURVEYED: 03-21-11 | SURVEYED BY: S.V. | VERSION: |
| DATE DRAWN: 03-25-11 | DRAWN BY: M.W. | V2 |
| REVISED: 03-19-13 F.T.M. | SCALE: 1" = 1000' | |

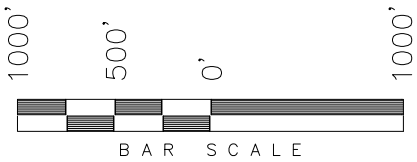

RECEIVED: August 22, 2013

# T9S, R16E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, K-6-9-16,
LOCATED AS SHOWN IN THE NE 1/4
SE 1/4 OF SECTION 6, T9S, R16E,
S.L.B.&M. DUCHESNE COUNTY, UTAH.




**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
4. The Bottom of Hole footages are 2336' FSL & 120' FEL.

N

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR No.189377 03-19-13 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. [illegible]
STATE OF UTAH

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

| NAD 83 (BOTTOM HOLE LOCATION) |
|---|
| LATITUDE = 40°03'32.73" |
| LONGITUDE = 110°09'11.29" |
| **NAD 27 (BOTTOM HOLE LOCATION)** |
| LATITUDE = 40°03'32.87" |
| LONGITUDE = 110°09'08.74" |

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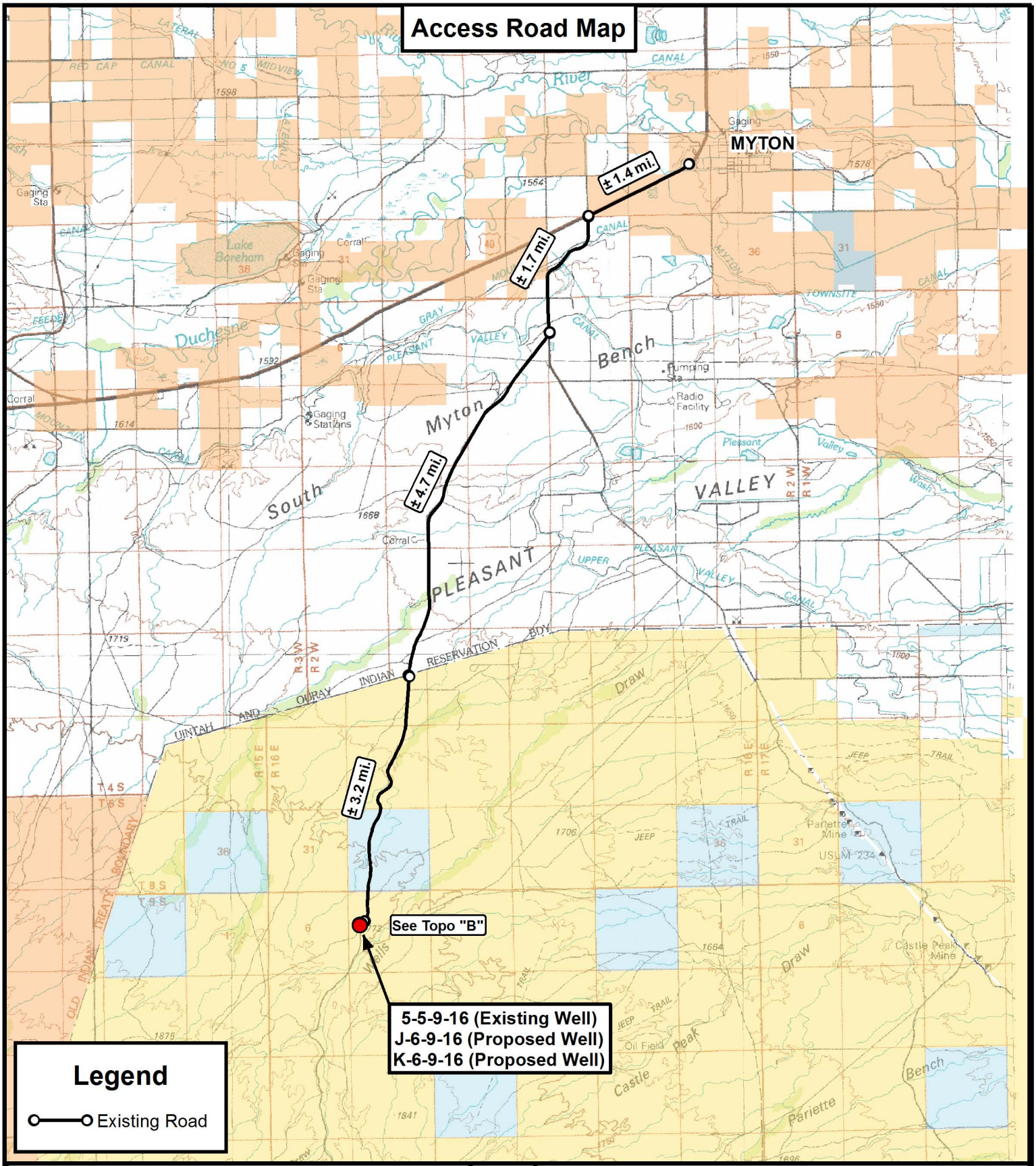
(435) 781-2501

| | | |
|---|---|---|
| DATE SURVEYED: 03-21-11 | SURVEYED BY: S.V. | VERSION: |
| DATE DRAWN: 03-25-11 | DRAWN BY: M.W. | V2 |
| REVISED: 03-19-13 F.T.M. | SCALE: 1" = 1000' | |

RECEIVED: August 22, 2013

API Well Number: 43013524160000

# Access Road Map





Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518


N

**NEWFIELD EXPLORATION COMPANY**

5-5-9-16 (Existing Well)
J-6-9-16 (Proposed Well)
K-6-9-16 (Proposed Well)
SEC. 5, T9S, R16E, S.L.B.&M. Duchesne County, UT.

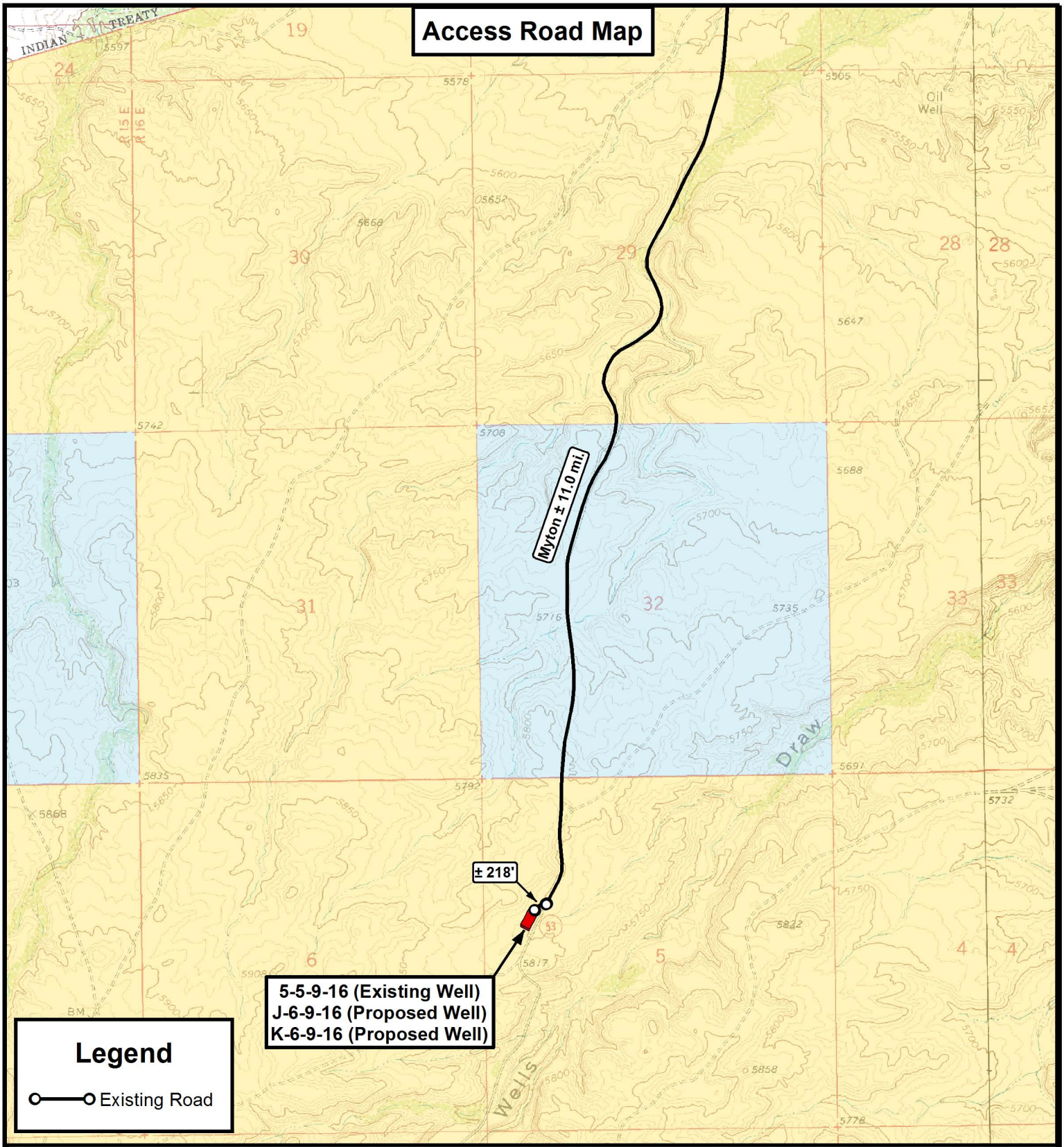
| DRAWN BY: | C.H.M. | REVISED: | 03-19-13 A.P.C. | VERSION: |
|---|---|---|---|---|
| DATE: | 05-24-2011 | | | V2 |
| SCALE: | 1:100,000 | | | |

TOPOGRAPHIC MAP

SHEET A

API Well Number: 43013524160000

# Access Road Map




THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.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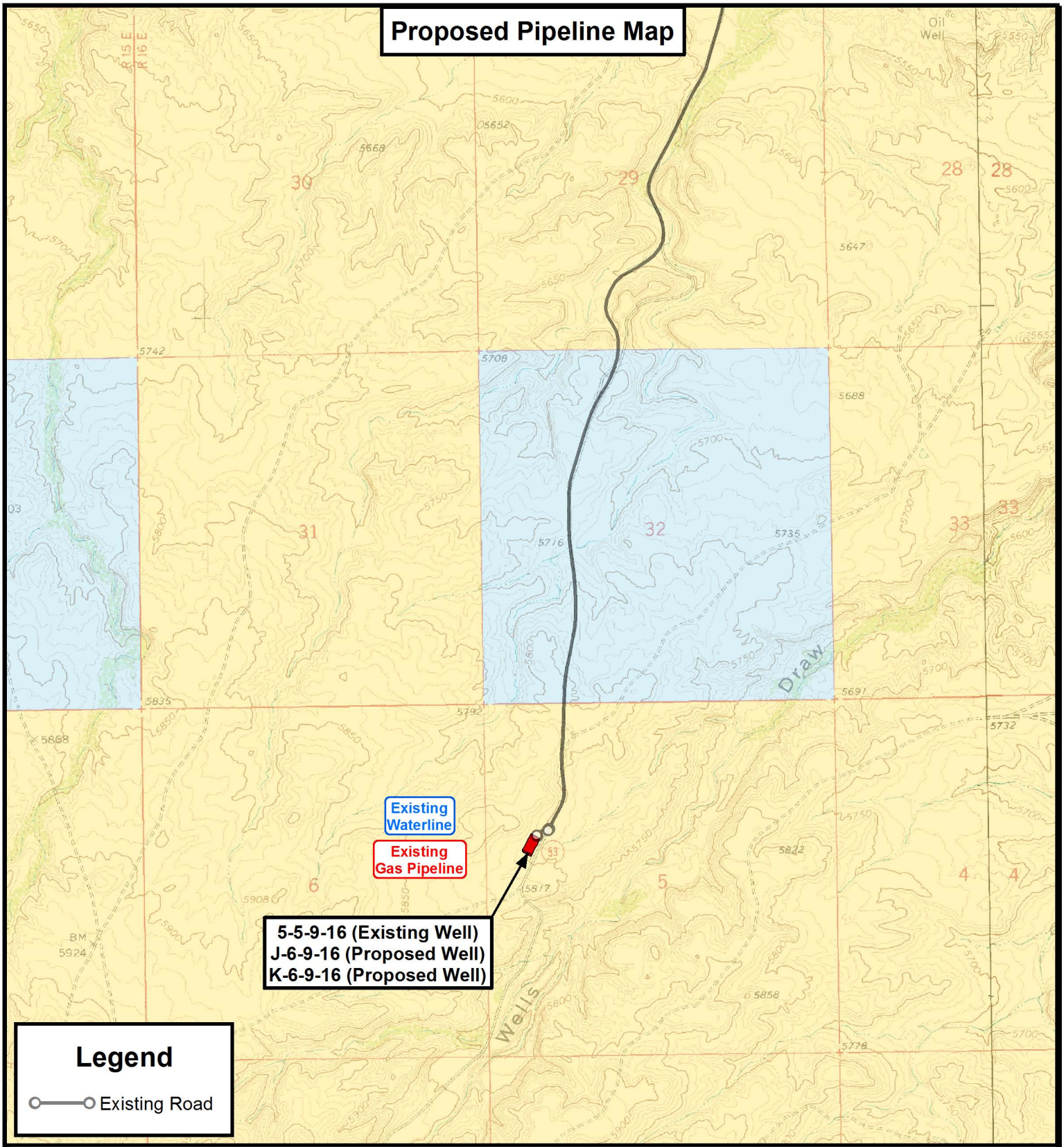
N

## NEWFIELD EXPLORATION COMPANY

5-5-9-16 (Existing Well)
J-6-9-16 (Proposed Well)
K-6-9-16 (Proposed Well)
SEC. 5, T9S, R16E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: C.H.M. | REVISED: 03-19-13 A.P.C. | VERSION: | TOPOGRAPHIC MAP |
| DATE: 05-24-2011 | | V2 | SHEET B |
| SCALE: 1 " = 2,000 ' | | | |

API Well Number: 43013524160000

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N

## NEWFIELD EXPLORATION COMPANY

5-5-9-16 (Existing Well)
J-6-9-16 (Proposed Well)
K-6-9-16 (Proposed Well)
SEC. 5, T9S, R16E, S.L.B.&M. Duchesne County, UT.

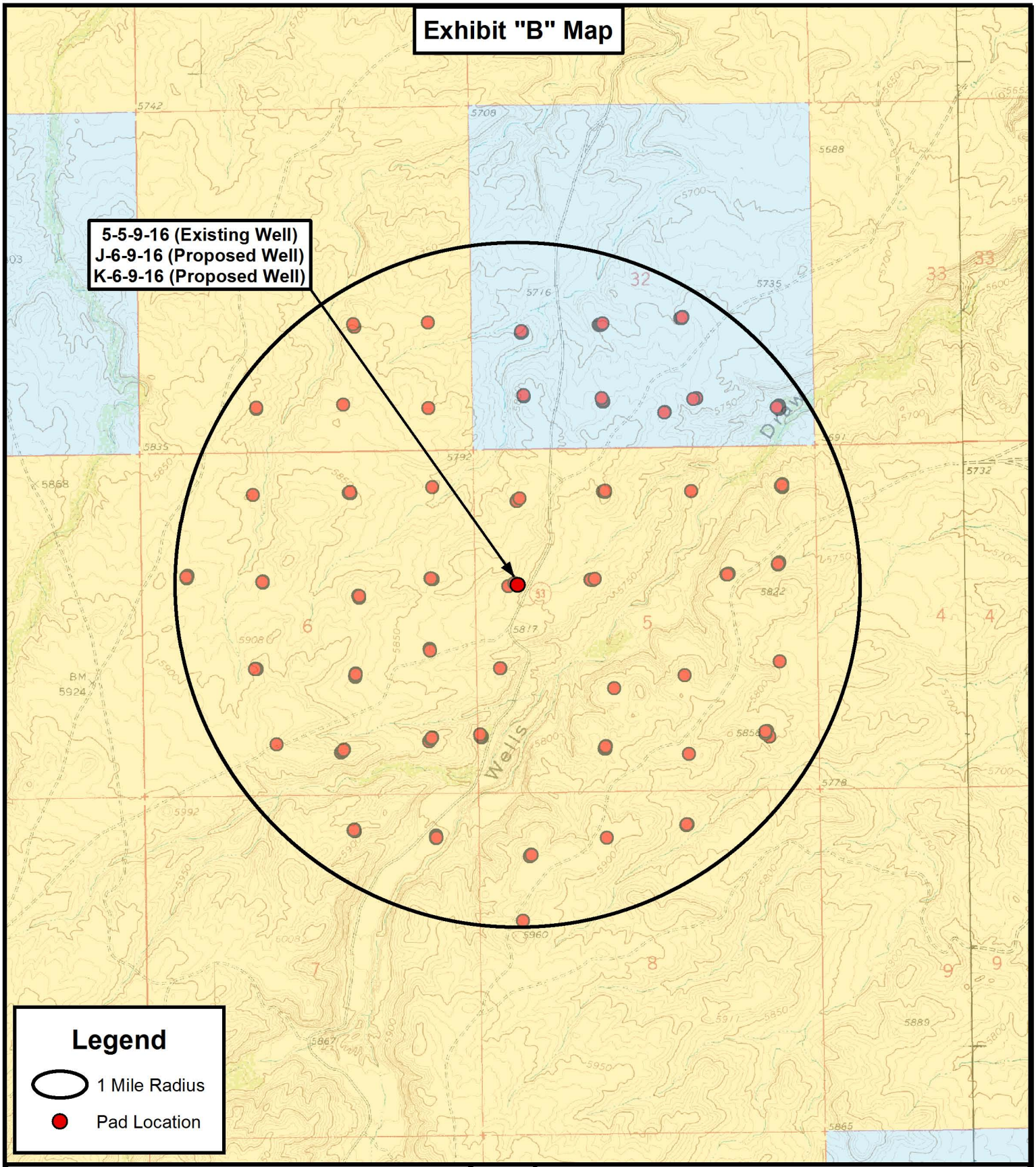
| | | | |
|---|---|---|---|
| DRAWN BY: | C.H.M. | REVISED: 03-19-13 A.P.C. | VERSION: |
| DATE: | 05-24-2011 | | V2 |
| SCALE: | 1 " = 2,000 ' | | |

TOPOGRAPHIC MAP

SHEET C

API Well Number: 43013524160000

# Exhibit "B" Map

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**NEWFIELD EXPLORATION COMPANY**

5-5-9-16 (Existing Well)
J-6-9-16 (Proposed Well)
K-6-9-16 (Proposed Well)
SEC. 5, T9S, R16E, S.L.B.&M. Duchesne County, UT.

| DRAWN BY: | C.H.M. | REVISED: | 03-19-13 A.P.C. | VERSION: |
|---|---|---|---|---|
| DATE: | 05-24-2011 | | | V2 |
| SCALE: | 1 " = 2,000 ' | | | |

TOPOGRAPHIC MAP

SHEET D

API Well Number: 43013524160000

# Coordinate Report

| Well Number | Feature Type | Latitude (NAD 83) (DMS) | Longitude (NAD 83) (DMS) |
|---|---|---|---|
| 5-5-9-16 | Surface Hole | 40° 03' 41.14" N | 110° 09' 01.24" W |
| J-6-9-16 | Surface Hole | 40° 03' 40.94" N | 110° 09' 01.16" W |
| K-6-9-16 | Surface Hole | 40° 03' 40.74" N | 110° 09' 01.09" W |
| J-6-9-16 | Center of Pattern | 40° 03' 47.50" N | 110° 09' 08.76" W |
| K-6-9-16 | Center of Pattern | 40° 03' 34.35" N | 110° 09' 09.24" W |
| J-6-9-16 | Bottom of Hole | 40° 03' 49.04" N | 110° 09' 10.54" W |
| K-6-9-16 | Bottom of Hole | 40° 03' 32.73" N | 110° 09' 11.29" W |

| Well Number | Feature Type | Latitude (NAD 83) (DD) | Longitude (NAD 83) (DD) |
|---|---|---|---|
| 5-5-9-16 | Surface Hole | 40.061428 | 110.150343 |
| J-6-9-16 | Surface Hole | 40.061372 | 110.150323 |
| K-6-9-16 | Surface Hole | 40.061316 | 110.150303 |
| J-6-9-16 | Center of Pattern | 40.063194 | 110.152433 |
| K-6-9-16 | Center of Pattern | 40.059540 | 110.152566 |
| J-6-9-16 | Bottom of Hole | 40.063622 | 110.152929 |
| K-6-9-16 | Bottom of Hole | 40.059093 | 110.153136 |

| Well Number | Feature Type | Northing (NAD 83) (UTM Meters) | Longitude (NAD 83) (UTM Meters) |
|---|---|---|---|
| 5-5-9-16 | Surface Hole | 4434921.023 | 572461.879 |
| J-6-9-16 | Surface Hole | 4434914.808 | 572463.650 |
| K-6-9-16 | Surface Hole | 4434908.594 | 572465.421 |
| J-6-9-16 | Center of Pattern | 4435115.340 | 572281.747 |
| K-6-9-16 | Center of Pattern | 4434709.646 | 572274.300 |
| J-6-9-16 | Bottom of Hole | 4435162.436 | 572239.025 |
| K-6-9-16 | Bottom of Hole | 4434659.527 | 572226.153 |

| Well Number | Feature Type | Latitude (NAD 27) (DMS) | Longitude (NAD 27) (DMS) |
|---|---|---|---|
| 5-5-9-16 | Surface Hole | 40° 03' 41.28" N | 110° 08' 58.69" W |
| J-6-9-16 | Surface Hole | 40° 03' 41.08" N | 110° 08' 58.62" W |
| K-6-9-16 | Surface Hole | 40° 03' 40.88" N | 110° 08' 58.54" W |
| J-6-9-16 | Center of Pattern | 40° 03' 47.64" N | 110° 09' 06.21" W |
| K-6-9-16 | Center of Pattern | 40° 03' 34.48" N | 110° 09' 06.69" W |
| J-6-9-16 | Bottom of Hole | 40° 03' 49.18" N | 110° 09' 08.00" W |
| K-6-9-16 | Bottom of Hole | 40° 03' 32.87" N | 110° 09' 08.74" W |


Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518


**NEWFIELD EXPLORATION COMPANY**

**5-5-9-16 (Existing Well)**
**J-6-9-16 (Proposed Well)**
**K-6-9-16 (Proposed Well)**
**SEC. 5, T9S, R16E, S.L.B.&M. Duchesne County, UT.**

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | |
| DATE: | 03-19-2013 | | |
| VERSION: | V2 | | |

COORDINATE REPORT

SHEET 1


RECEIVED: August 22, 2013

API Well Number: 43013524160000

# Coordinate Report

| Well Number | Feature Type | Latitude (NAD 27) (DD) | Longitude (NAD 27) (DD) |
|---|---|---|---|
| 5-5-9-16 | Surface Hole | 40.061467 | 110.149636 |
| J-6-9-16 | Surface Hole | 40.061411 | 110.149616 |
| K-6-9-16 | Surface Hole | 40.061354 | 110.149596 |
| J-6-9-16 | Center of Pattern | 40.063233 | 110.151726 |
| K-6-9-16 | Center of Pattern | 40.059579 | 110.151859 |
| J-6-9-16 | Bottom of Hole | 40.063661 | 110.152222 |
| K-6-9-16 | Bottom of Hole | 40.059131 | 110.152429 |

| Well Number | Feature Type | Northing (NAD 27) (UTM Meters) | Longitude (NAD 27) (UTM Meters) |
|---|---|---|---|
| 5-5-9-16 | Surface Hole | 4434715.692 | 572524.076 |
| J-6-9-16 | Surface Hole | 4434709.478 | 572525.847 |
| K-6-9-16 | Surface Hole | 4434703.263 | 572527.618 |
| J-6-9-16 | Center of Pattern | 4434910.010 | 572343.941 |
| K-6-9-16 | Center of Pattern | 4434504.315 | 572336.497 |
| J-6-9-16 | Bottom of Hole | 4434957.106 | 572301.219 |
| K-6-9-16 | Bottom of Hole | 4434454.196 | 572288.349 |

Tri State Land Surveying, Inc.
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**NEWFIELD EXPLORATION COMPANY**

**5-5-9-16 (Existing Well)**
**J-6-9-16 (Proposed Well)**
**K-6-9-16 (Proposed Well)**
**SEC. 5, T9S, R16E, S.L.B.&M. Duchesne County, UT.**

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | |
| DATE: | 03-19-2013 | | |
| VERSION: | V2 | | |

COORDINATE REPORT

SHEET 2

RECEIVED: August 22, 2013

# NEWFIELD EXPLORATION

**USGS Myton SW (UT)**
**SECTION 5 T9, R16**
**K-6-9-16**

**Wellbore #1**

**Plan: Design #1**

# Standard Planning Report

**16 August, 2013**

RECEIVED: August 22, 2013

NEWFIELD

# Payzone Directional

## Planning Report

PAYZONE DIRECTIONAL

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well K-6-9-16 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | K-6-9-16 @ 5819.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | K-6-9-16 @ 5819.0ft (Original Well Elev) |
| **Site:** | SECTION 5 T9, R16 | **North Reference:** | True |
| **Well:** | K-6-9-16 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Project** USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | Utah Central Zone | | |

**Site** SECTION 5 T9, R16, SEC 5 T8S, R16E

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 7,198,917.07 ft | **Latitude:** | 40° 4' 30.000 N |
| **From:** | Lat/Long | **Easting:** | 2,019,727.79 ft | **Longitude:** | 110° 8' 40.000 W |
| **Position Uncertainty:** | 0.0 ft | **Slot Radius:** | " | **Grid Convergence:** | 0.87 ° |

**Well** K-6-9-16, SHL LAT: 40 03 40.74 LONG: -110 09 01.09

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | -4,984.3 ft | **Northing:** | 7,193,908.58 ft | **Latitude:** | 40° 3' 40.740 N |
| | **+E/-W** | -1,639.3 ft | **Easting:** | 2,018,163.84 ft | **Longitude:** | 110° 9' 1.090 W |
| **Position Uncertainty** | | 0.0 ft | **Wellhead Elevation:** | 5,819.0 ft | **Ground Level:** | 5,807.0 ft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2010 | 4/21/2011 | 11.37 | 65.80 | 52,279 |

**Design** Design #1

**Audit Notes:**

| | | | | | |
|---|---|---|---|---|---|
| **Version:** | | **Phase:** | PROTOTYPE | **Tie On Depth:** | 0.0 |

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.0 | 0.0 | 0.0 | 223.53 |

**Plan Sections**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,402.4 | 12.04 | 223.53 | 1,396.6 | -60.9 | -57.8 | 1.50 | 1.50 | -17.01 | 223.53 | |
| 5,342.5 | 12.04 | 223.53 | 5,250.0 | -656.6 | -623.7 | 0.00 | 0.00 | 0.00 | 0.00 | K-6-9-16 TGT |
| 6,436.6 | 12.04 | 223.53 | 6,320.0 | -822.0 | -780.9 | 0.00 | 0.00 | 0.00 | 0.00 | |



RECEIVED: August 22, 2013

NEWFIELD

# Payzone Directional

## Planning Report

PAYZONE DIRECTIONAL

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well K-6-9-16 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | K-6-9-16 @ 5819.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | K-6-9-16 @ 5819.0ft (Original Well Elev) |
| **Site:** | SECTION 5 T9, R16 | **North Reference:** | True |
| **Well:** | K-6-9-16 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 1.50 | 223.53 | 700.0 | -1.0 | -0.9 | 1.3 | 1.50 | 1.50 | 0.00 |
| 800.0 | 3.00 | 223.53 | 799.9 | -3.8 | -3.6 | 5.2 | 1.50 | 1.50 | 0.00 |
| 900.0 | 4.50 | 223.53 | 899.7 | -8.5 | -8.1 | 11.8 | 1.50 | 1.50 | 0.00 |
| 1,000.0 | 6.00 | 223.53 | 999.3 | -15.2 | -14.4 | 20.9 | 1.50 | 1.50 | 0.00 |
| 1,100.0 | 7.50 | 223.53 | 1,098.6 | -23.7 | -22.5 | 32.7 | 1.50 | 1.50 | 0.00 |
| 1,200.0 | 9.00 | 223.53 | 1,197.5 | -34.1 | -32.4 | 47.0 | 1.50 | 1.50 | 0.00 |
| 1,300.0 | 10.50 | 223.53 | 1,296.1 | -46.4 | -44.1 | 64.0 | 1.50 | 1.50 | 0.00 |
| 1,402.4 | 12.04 | 223.53 | 1,396.6 | -60.9 | -57.8 | 84.0 | 1.50 | 1.50 | 0.00 |
| 1,500.0 | 12.04 | 223.53 | 1,492.0 | -75.6 | -71.9 | 104.3 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 12.04 | 223.53 | 1,589.8 | -90.8 | -86.2 | 125.2 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 12.04 | 223.53 | 1,687.6 | -105.9 | -100.6 | 146.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 12.04 | 223.53 | 1,785.4 | -121.0 | -114.9 | 166.9 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 12.04 | 223.53 | 1,883.2 | -136.1 | -129.3 | 187.7 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 12.04 | 223.53 | 1,981.0 | -151.2 | -143.7 | 208.6 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 12.04 | 223.53 | 2,078.8 | -166.4 | -158.0 | 229.4 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 12.04 | 223.53 | 2,176.6 | -181.5 | -172.4 | 250.3 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 12.04 | 223.53 | 2,274.4 | -196.6 | -186.8 | 271.2 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 12.04 | 223.53 | 2,372.2 | -211.7 | -201.1 | 292.0 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 12.04 | 223.53 | 2,470.0 | -226.8 | -215.5 | 312.9 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 12.04 | 223.53 | 2,567.8 | -242.0 | -229.8 | 333.7 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 12.04 | 223.53 | 2,665.6 | -257.1 | -244.2 | 354.6 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 12.04 | 223.53 | 2,763.4 | -272.2 | -258.6 | 375.4 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 12.04 | 223.53 | 2,861.2 | -287.3 | -272.9 | 396.3 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 12.04 | 223.53 | 2,959.0 | -302.4 | -287.3 | 417.1 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 12.04 | 223.53 | 3,056.8 | -317.5 | -301.7 | 438.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 12.04 | 223.53 | 3,154.6 | -332.7 | -316.0 | 458.8 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 12.04 | 223.53 | 3,252.4 | -347.8 | -330.4 | 479.7 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 12.04 | 223.53 | 3,350.2 | -362.9 | -344.7 | 500.5 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 12.04 | 223.53 | 3,448.0 | -378.0 | -359.1 | 521.4 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 12.04 | 223.53 | 3,545.8 | -393.1 | -373.5 | 542.3 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 12.04 | 223.53 | 3,643.6 | -408.3 | -387.8 | 563.1 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 12.04 | 223.53 | 3,741.4 | -423.4 | -402.2 | 584.0 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 12.04 | 223.53 | 3,839.2 | -438.5 | -416.6 | 604.8 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 12.04 | 223.53 | 3,937.0 | -453.6 | -430.9 | 625.7 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 12.04 | 223.53 | 4,034.8 | -468.7 | -445.3 | 646.5 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 12.04 | 223.53 | 4,132.6 | -483.9 | -459.6 | 667.4 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 12.04 | 223.53 | 4,230.4 | -499.0 | -474.0 | 688.2 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 12.04 | 223.53 | 4,328.2 | -514.1 | -488.4 | 709.1 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 12.04 | 223.53 | 4,426.0 | -529.2 | -502.7 | 729.9 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 12.04 | 223.53 | 4,523.8 | -544.3 | -517.1 | 750.8 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 12.04 | 223.53 | 4,621.6 | -559.5 | -531.5 | 771.6 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 12.04 | 223.53 | 4,719.4 | -574.6 | -545.8 | 792.5 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 12.04 | 223.53 | 4,817.2 | -589.7 | -560.2 | 813.4 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 12.04 | 223.53 | 4,915.0 | -604.8 | -574.6 | 834.2 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 12.04 | 223.53 | 5,012.8 | -619.9 | -588.9 | 855.1 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 12.04 | 223.53 | 5,110.6 | -635.1 | -603.3 | 875.9 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 12.04 | 223.53 | 5,208.4 | -650.2 | -617.6 | 896.8 | 0.00 | 0.00 | 0.00 |



RECEIVED: August 22, 2013

NEWFIELD

# Payzone Directional

## Planning Report

PAYZONE DIRECTIONAL

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well K-6-9-16 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | K-6-9-16 @ 5819.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | K-6-9-16 @ 5819.0ft (Original Well Elev) |
| **Site:** | SECTION 5 T9, R16 | **North Reference:** | True |
| **Well:** | K-6-9-16 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,342.5 | 12.04 | 223.53 | 5,250.0 | -656.6 | -623.7 | 905.6 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 12.04 | 223.53 | 5,306.2 | -665.3 | -632.0 | 917.6 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 12.04 | 223.53 | 5,404.0 | -680.4 | -646.4 | 938.5 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 12.04 | 223.53 | 5,501.8 | -695.5 | -660.7 | 959.3 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 12.04 | 223.53 | 5,599.6 | -710.6 | -675.1 | 980.2 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 12.04 | 223.53 | 5,697.4 | -725.8 | -689.5 | 1,001.0 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 12.04 | 223.53 | 5,795.2 | -740.9 | -703.8 | 1,021.9 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 12.04 | 223.53 | 5,893.0 | -756.0 | -718.2 | 1,042.7 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 12.04 | 223.53 | 5,990.8 | -771.1 | -732.5 | 1,063.6 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 12.04 | 223.53 | 6,088.6 | -786.2 | -746.9 | 1,084.5 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 12.04 | 223.53 | 6,186.4 | -801.4 | -761.3 | 1,105.3 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 12.04 | 223.53 | 6,284.2 | -816.5 | -775.6 | 1,126.2 | 0.00 | 0.00 | 0.00 |
| 6,436.6 | 12.04 | 223.53 | 6,320.0 | -822.0 | -780.9 | 1,133.8 | 0.00 | 0.00 | 0.00 |



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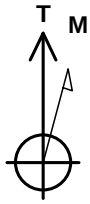
API Well Number: 43013524160000

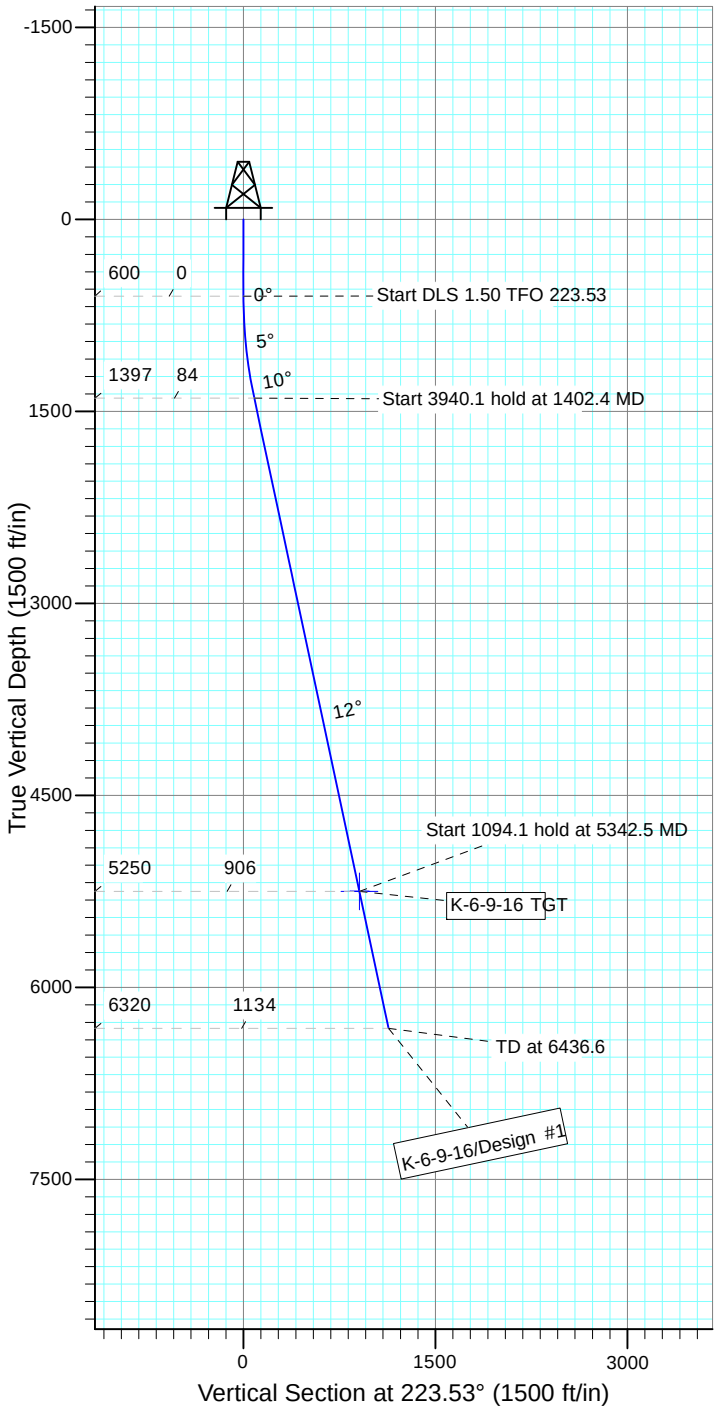
NEWFIELD

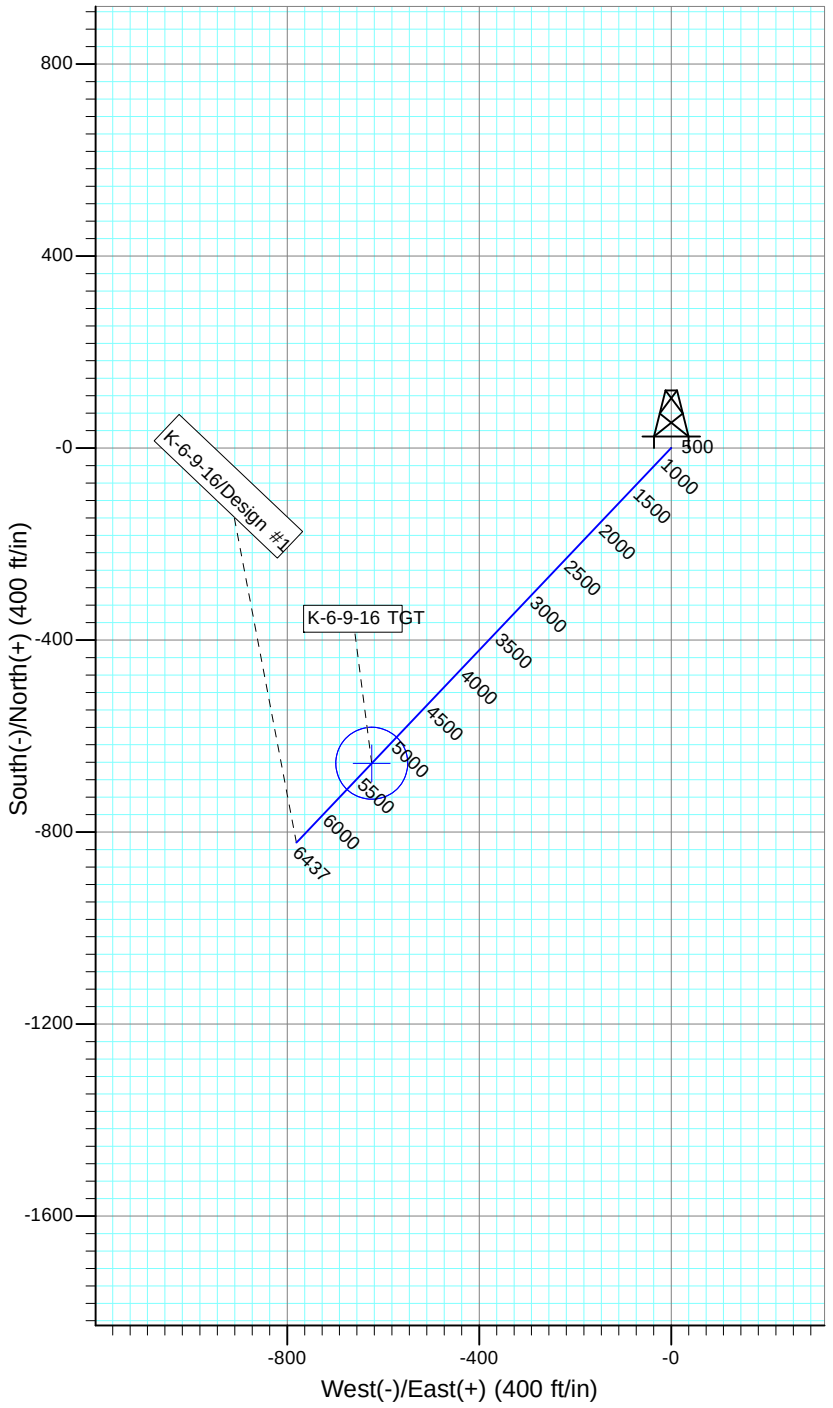
Project: USGS Myton SW (UT)
Site: SECTION 5 T9, R16
Well: K-6-9-16
Wellbore: Wellbore #1
Design: Design #1




Azimuths to True North
Magnetic North: 11.37°

Magnetic Field
Strength: 52279.3snT
Dip Angle: 65.80°
Date: 4/21/2011
Model: IGRF2010




WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|---|---|---|---|---|
| K-6-9-16 TGT | 5250.0 | -656.6 | -623.7 | Circle (Radius: 75.0) |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1402.4 | 12.04 | 223.53 | 1396.6 | -60.9 | -57.8 | 1.50 | 223.53 | 84.0 | |
| 4 | 5342.5 | 12.04 | 223.53 | 5250.0 | -656.6 | -623.7 | 0.00 | 0.00 | 905.6 | K-6-9-16 TGT |
| 5 | 6436.6 | 12.04 | 223.53 | 6320.0 | -822.0 | -780.9 | 0.00 | 0.00 | 1133.8 | |

PAYZONE

**NEWFIELD PRODUCTION COMPANY**
**GMBU K-6-9-16**
**AT SURFACE: SW/NW SECTION 5, T9S R16E**
**DUCHESNE COUNTY, UTAH**

# ONSHORE ORDER NO. 1

## *MULTI-POINT SURFACE USE & OPERATIONS PLAN*

### *1. EXISTING ROADS*

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU K-6-9-16 located in the SW 1/4 NW 1/4 Section 5, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 – 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed in a southwesterly direction – 9.6 miles ± to it's junction with the beginning of the access road to the existing 5-5-9-16 well location.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

### *2. PLANNED ACCESS ROAD*

There is no proposed access road for this location. The proposed well will be drilled directionaly off of the existing 5-5-9-16 well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

### *3. LOCATION OF EXISTING WELLS*

Refer to Exhibit "B".

### *4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES*

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

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Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

***5. LOCATION AND TYPE OF WATER SUPPLY***

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District
Water Right : 43-7478

Maurice Harvey Pond
Water Right: 47-1358

Neil Moon Pond
Water Right: 43-11787

Newfield Collector Well
Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

***6. SOURCE OF CONSTRUCTION MATERIALS***

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

***7. METHODS FOR HANDLING WASTE DISPOSAL***

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

***8. ANCILLARY FACILITIES***

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There are no ancillary facilities planned for at the present time and none foreseen in the near future.

***9.*** ***WELL SITE LAYOUT***

See attached Location Layout Sheet.

**Fencing Requirements**

a) All pits will be fenced or have panels installed consistent with the following minimum standards:

1. The wire shall be no more than two (2) inches above the ground. If barbed wire is utilized it will be installed three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.

2. Corner posts shall be centered and/or braced in such a manner to keep tight and upright at all times

3. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

10. **PLANS FOR RESTORATION OF SURFACE**:

a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

***11.*** ***SURFACE OWNERSHIP*** – Bureau of Land Management.

***12.*** ***OTHER ADDITIONAL INFORMATION***

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report # 13-150 7/19/13, prepared by Montgomery Archaeological Consultants. . Paleontological Resource Survey prepared by, Wade E Miller, Report dated 6/17/13.

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**Water Disposal**
After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

**Additional Surface Stipulations**
All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

**Hazardous Material Declaration**
Newfield Production Company guarantees that during the drilling and completion of the GMBU K-6-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU K-6-9-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

13. **LESSEE'S OR OPERATOR'S REPRENSENTATIVE AND CERTIFICATION:**

Representative

Name: Corie Miller
Address: Newfield Production Company
Route 3, Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

Certification
Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #K-6-9-16, Section 5, Township 9S, Range 16E: Lease UTU-69744 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

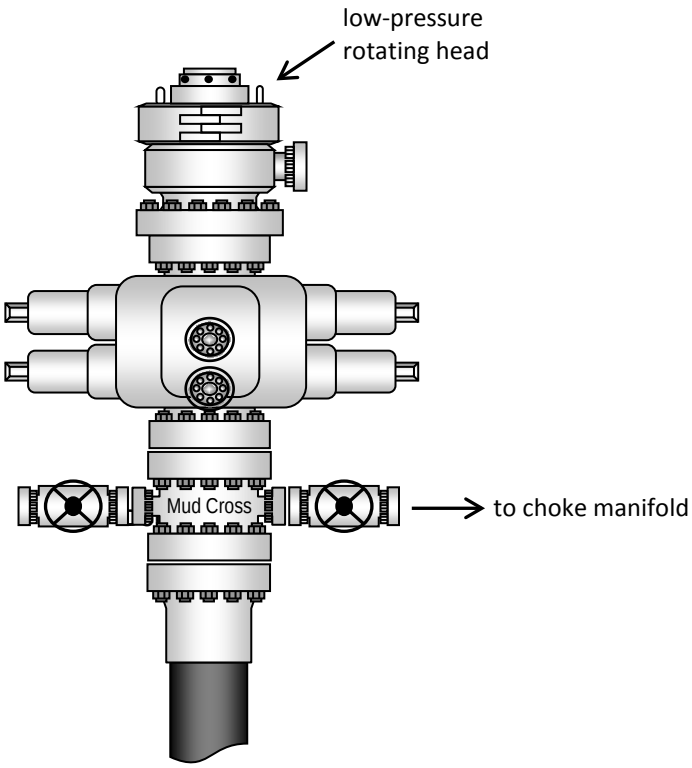
hcalder@newfield.com
Digitally signed by: hcalder@newfield.com
DN: CN = hcalder@newfield.com
Date: 2013.08.21 14:53:37 -06'00'

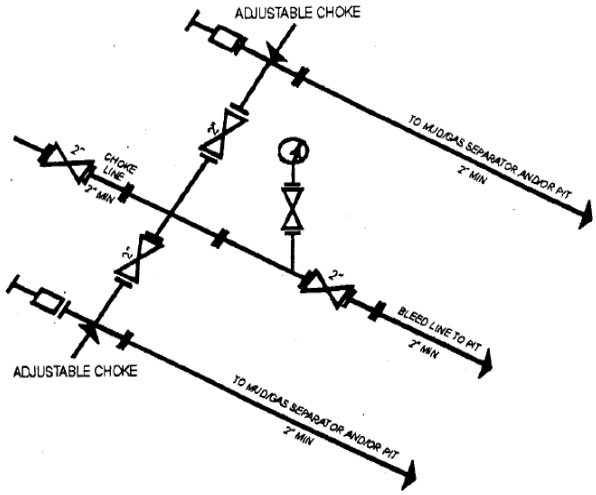
8/21/13
Date

Heather Calder
Production Technician
Newfield Production Company

RECEIVED: August 22, 2013

**Typical 2M BOP stack configuration**




2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

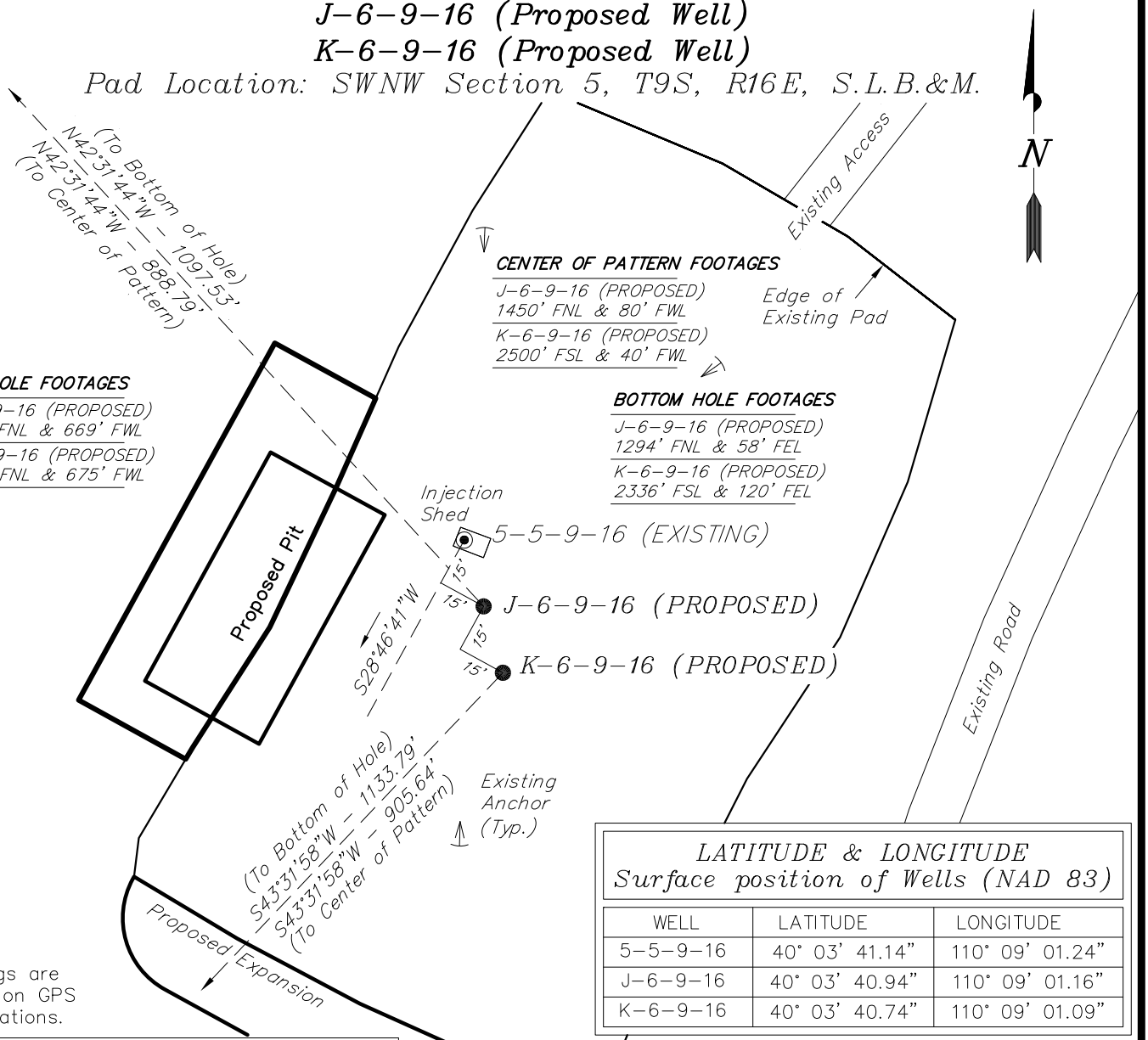
RECEIVED: August 22, 2013

# NEWFIELD EXPLORATION COMPANY

## WELL PAD INTERFERENCE PLAT

**5-5-9-16 (Existing Well)**
**J-6-9-16 (Proposed Well)**
**K-6-9-16 (Proposed Well)**

Pad Location: SWNW Section 5, T9S, R16E, S.L.B.&M.




**Note:**
Bearings are based on GPS Observations.

### LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| 5-5-9-16 | 40° 03' 41.14" | 110° 09' 01.24" |
| J-6-9-16 | 40° 03' 40.94" | 110° 09' 01.16" |
| K-6-9-16 | 40° 03' 40.74" | 110° 09' 01.09" |

### RELATIVE COORDINATES
From Top Hole to C.O.P.

| WELL | NORTH | EAST |
|---|---|---|
| J-6-9-16 | 655' | -601' |
| K-6-9-16 | -657' | -624' |

### LATITUDE & LONGITUDE
Center of Pattern (NAD 83)

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| J-6-9-16 | 40° 03' 47.50" | 110° 09' 08.76" |
| K-6-9-16 | 40° 03' 34.35" | 110° 09' 09.24" |

### RELATIVE COORDINATES
From Top Hole to Bottom Hole

| WELL | NORTH | EAST |
|---|---|---|
| J-6-9-16 | 809' | -742' |
| K-6-9-16 | -822' | -781' |

### LATITUDE & LONGITUDE
Bottom Hole Position (NAD 83)

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| J-6-9-16 | 40° 03' 49.04" | 110° 09' 10.54" |
| K-6-9-16 | 40° 03' 32.73" | 110° 09' 11.29" |

| | | | |
|---|---|---|---|
| SURVEYED BY: S.V. | DATE SURVEYED: 03-21-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: M.W. | DATE DRAWN: 03-25-11 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 50' | REVISED: F.T.M. 03-19-13 | | |

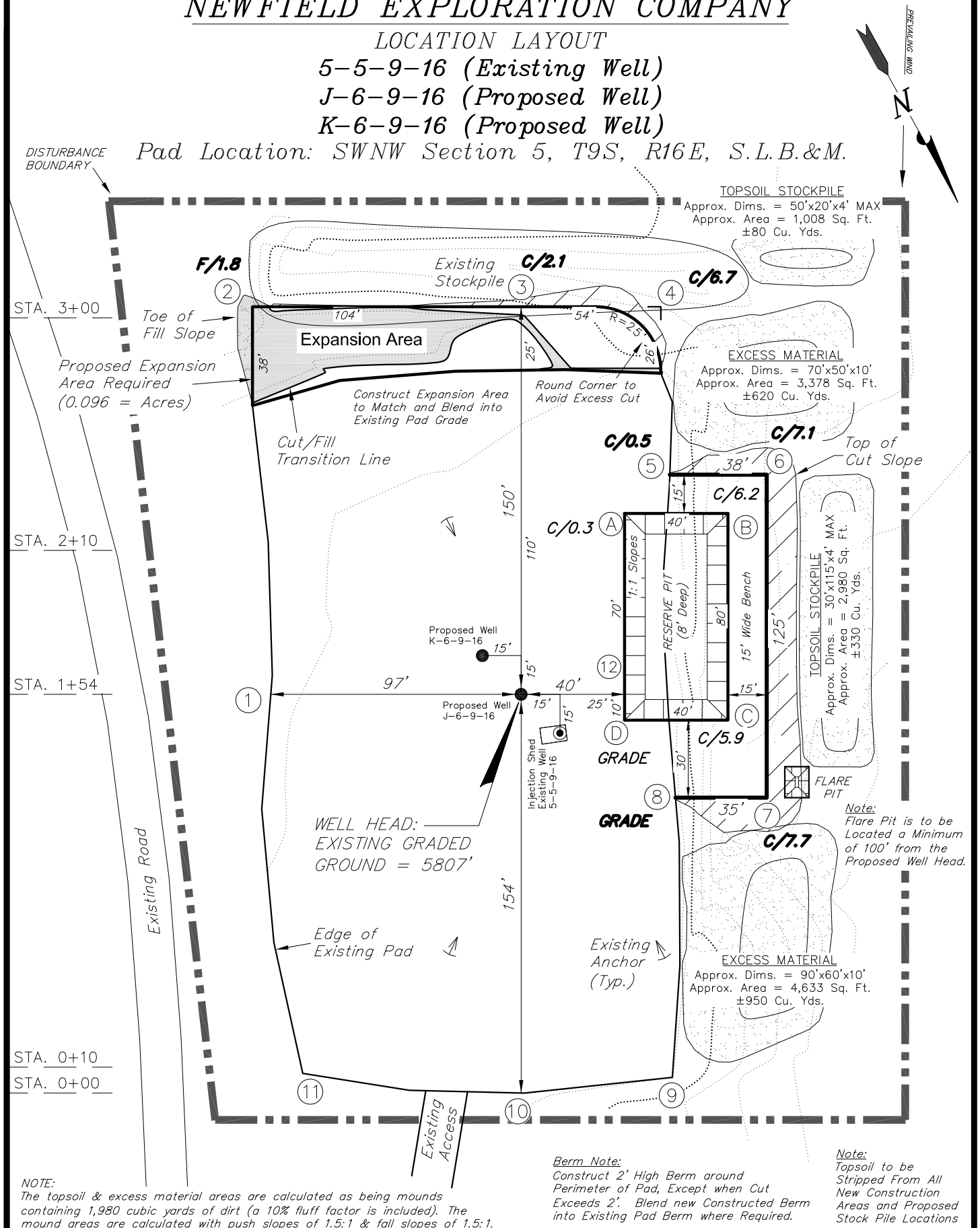
RECEIVED: August 22, 2013

# NEWFIELD EXPLORATION COMPANY

## LOCATION LAYOUT

## 5-5-9-16 (Existing Well)
## J-6-9-16 (Proposed Well)
## K-6-9-16 (Proposed Well)

Pad Location: SWNW Section 5, T9S, R16E, S.L.B.&M.




NOTE:
The topsoil & excess material areas are calculated as being mounds containing 1,980 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

Berm Note:
Construct 2' High Berm around Perimeter of Pad, Except when Cut Exceeds 2'. Blend new Constructed Berm into Existing Pad Berm where Required.

Note:
Topsoil to be Stripped From All New Construction Areas and Proposed Stock Pile Locations

| | | | |
|---|---|---|---|
| SURVEYED BY: S.V. | DATE SURVEYED: 03-21-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: M.W. | DATE DRAWN: 03-28-11 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 50' | REVISED: F.T.M. 03-19-13 | | |

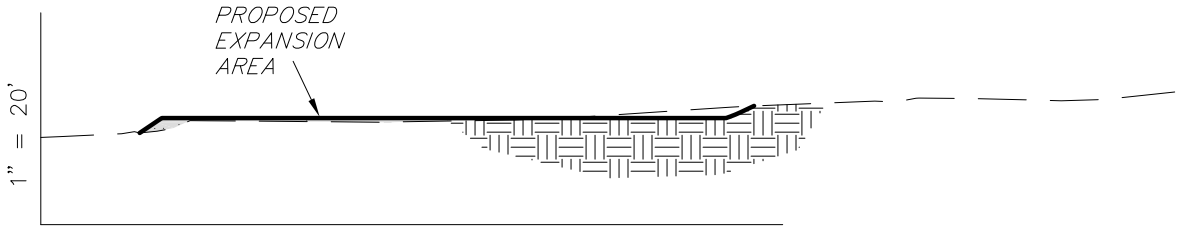
RECEIVED: August 22, 2013

# NEWFIELD EXPLORATION COMPANY

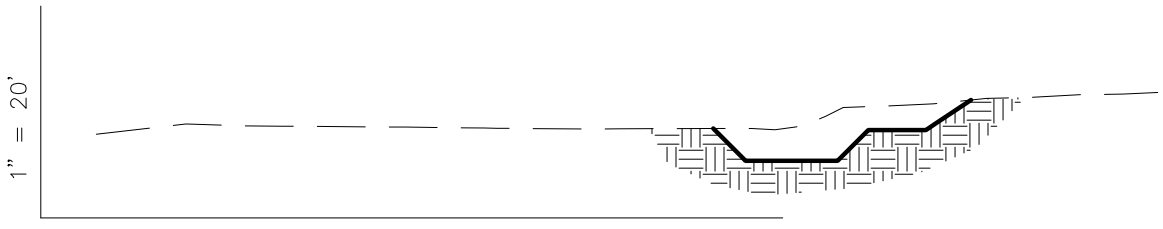
## CROSS SECTIONS

**5-5-9-16 (Existing Well)**
**J-6-9-16 (Proposed Well)**
**K-6-9-16 (Proposed Well)**

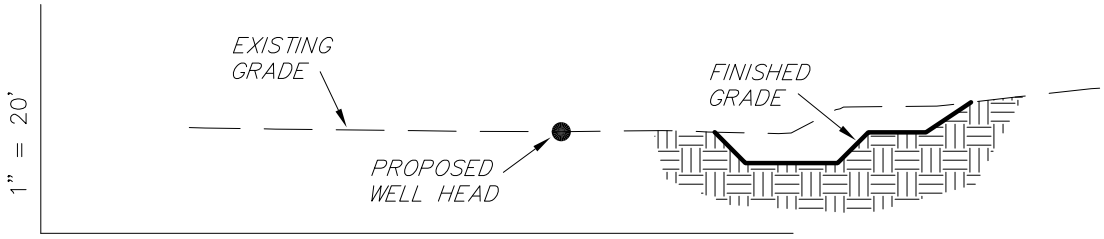
Pad Location: SWNW Section 5, T9S, R16E, S.L.B.&M.



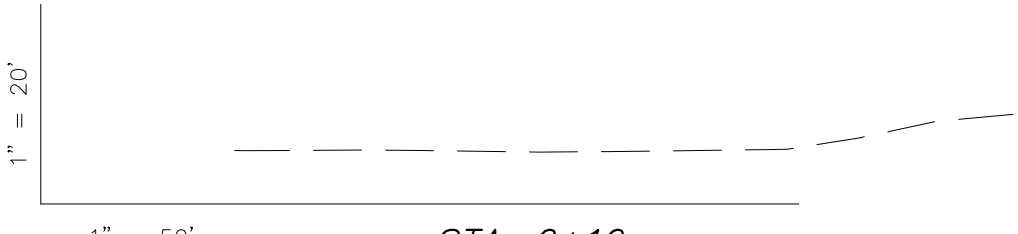

STA. 3+00




STA. 2+10




STA. 1+54




STA. 0+10

NOTE:
UNLESS OTHERWISE
NOTED ALL CUT/FILL
SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

| ITEM | CUT | FILL | 6" TOPSOIL | EXCESS |
|---|---|---|---|---|
| PAD | 850 | 110 | Topsoil is not included in Pad Cut | 740 |
| PIT | 690 | 0 | | 690 |
| TOTALS | 1,540 | 110 | 370 | 1,430 |

| | | | |
|---|---|---|---|
| SURVEYED BY: S.V. | DATE SURVEYED: 03-21-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: M.W. | DATE DRAWN: 03-28-11 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 50' | REVISED: F.T.M. 03-19-13 | | |

RECEIVED: August 22, 2013

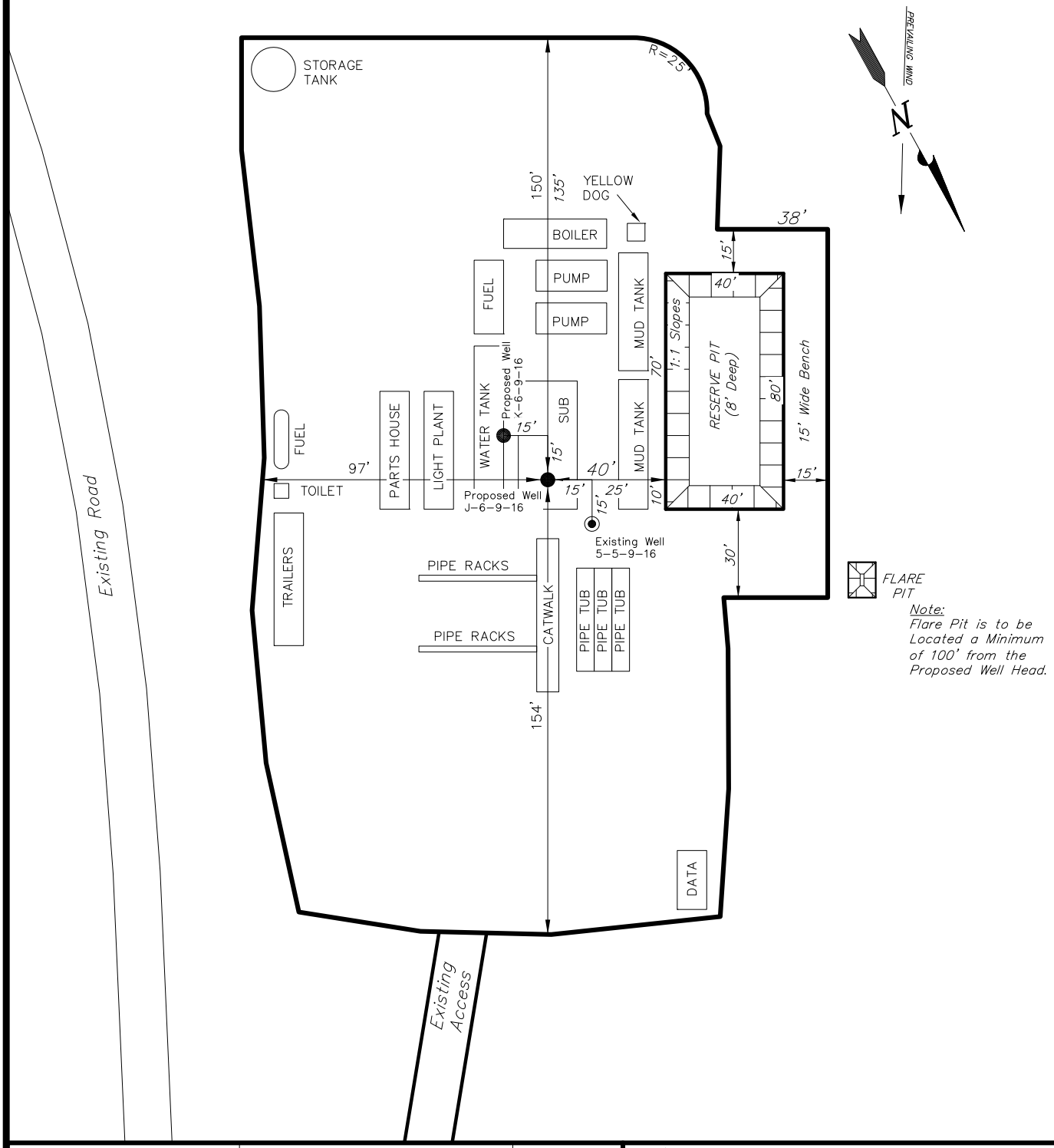
API Well Number: 43013524160000

# NEWFIELD EXPLORATION COMPANY

## TYPICAL RIG LAYOUT

**5-5-9-16 (Existing Well)**
**J-6-9-16 (Proposed Well)**
**K-6-9-16 (Proposed Well)**

Pad Location: SWNW Section 5, T9S, R16E, S.L.B.&M.




| | | | |
|---|---|---|---|
| SURVEYED BY: S.V. | DATE SURVEYED: 03-21-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: M.W. | DATE DRAWN: 03-28-11 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 50' | REVISED: F.T.M. 03-19-13 | | |

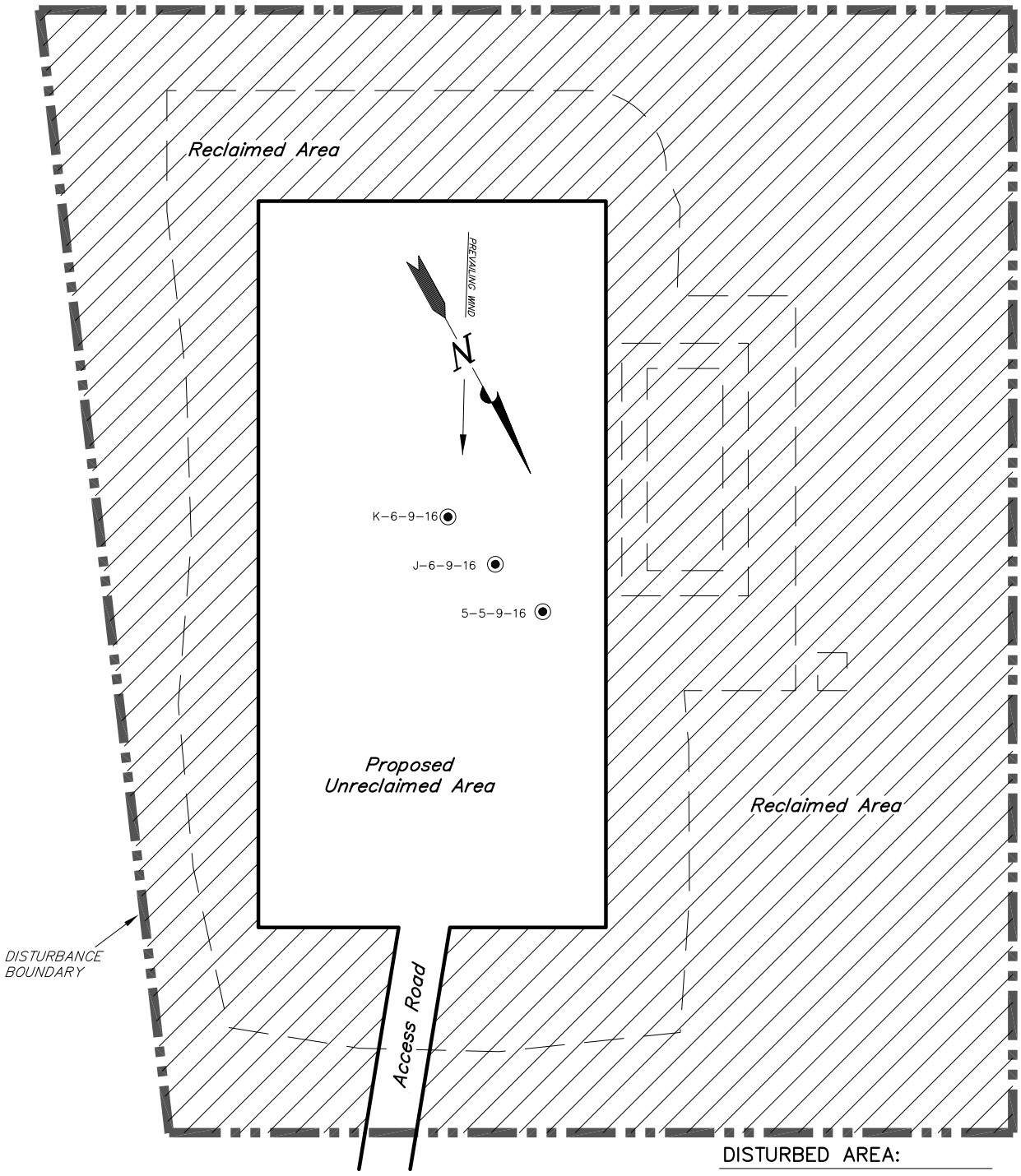
RECEIVED: August 22, 2013

# NEWFIELD EXPLORATION COMPANY

## RECLAMATION LAYOUT

### 5-5-9-16 (Existing Well)
### J-6-9-16 (Proposed Well)
### K-6-9-16 (Proposed Well)

Pad Location: SWNW Section 5, T9S, R16E, S.L.B.&M.




Notes:
1. Reclaimed Area to Include Seeding of Approved Vegetation and Sufficient Storm Water Management System.
2. Actual Equipment Layout and Reclaimed Pad Surface Area May Change due to Production Requirements or Site Conditions.

DISTURBED AREA:

TOTAL DISTURBED AREA = ±2.35 ACRES
TOTAL RECLAIMED AREA = ±1.74 ACRES
UNRECLAIMED AREA = ±0.61 ACRES

| | | | |
|---|---|---|---|
| SURVEYED BY: S.V. | DATE SURVEYED: 03-21-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: F.T.M. | DATE DRAWN: 03-19-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: | | |

RECEIVED: August 22, 2013

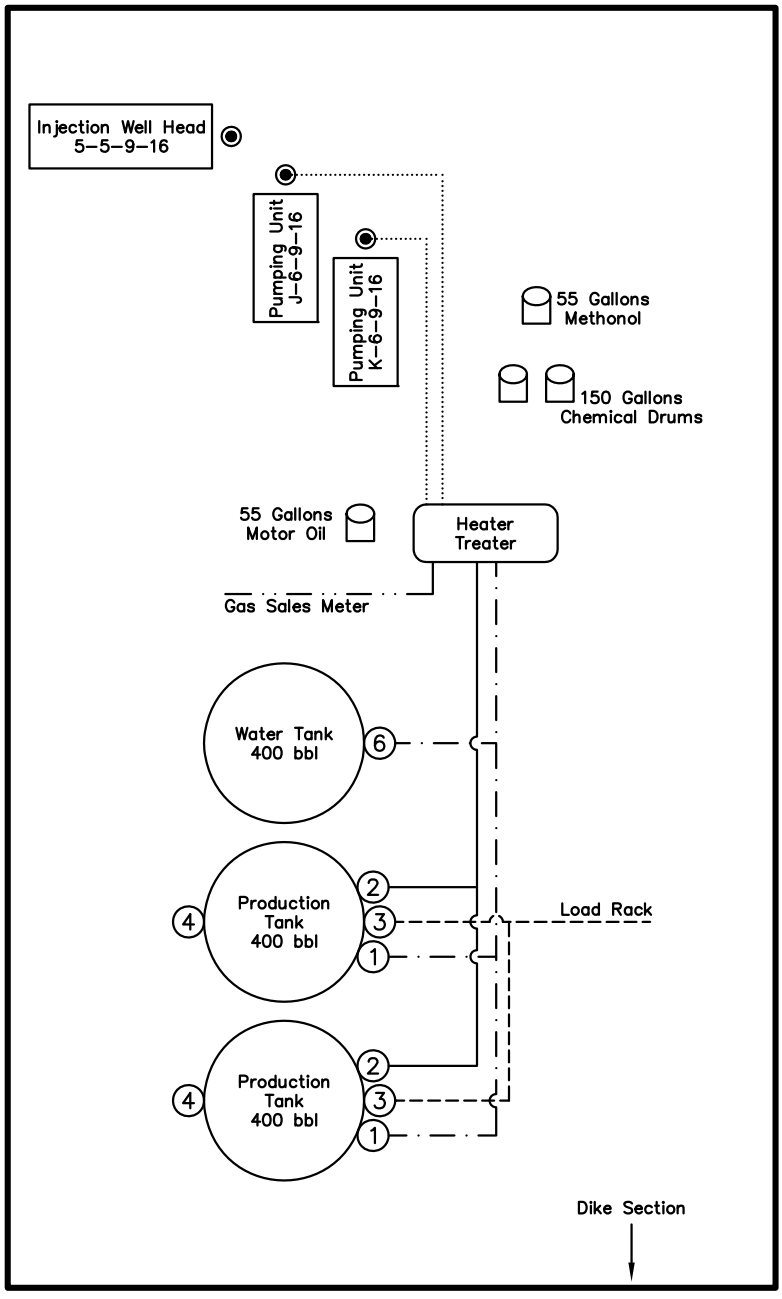
API Well Number: 43013524160000

# NEWFIELD EXPLORATION COMPANY

## PROPOSED SITE FACILITY DIAGRAM

### 5-5-9-16 (Existing Well)
### J-6-9-16 (Proposed Well) UTU-69744
### K-6-9-16 (Proposed Well) UTU-69744

Pad Location: SWNW Section 5, T9S, R16E, S.L.B.&M.
Duchesne County, Utah




**Legend**

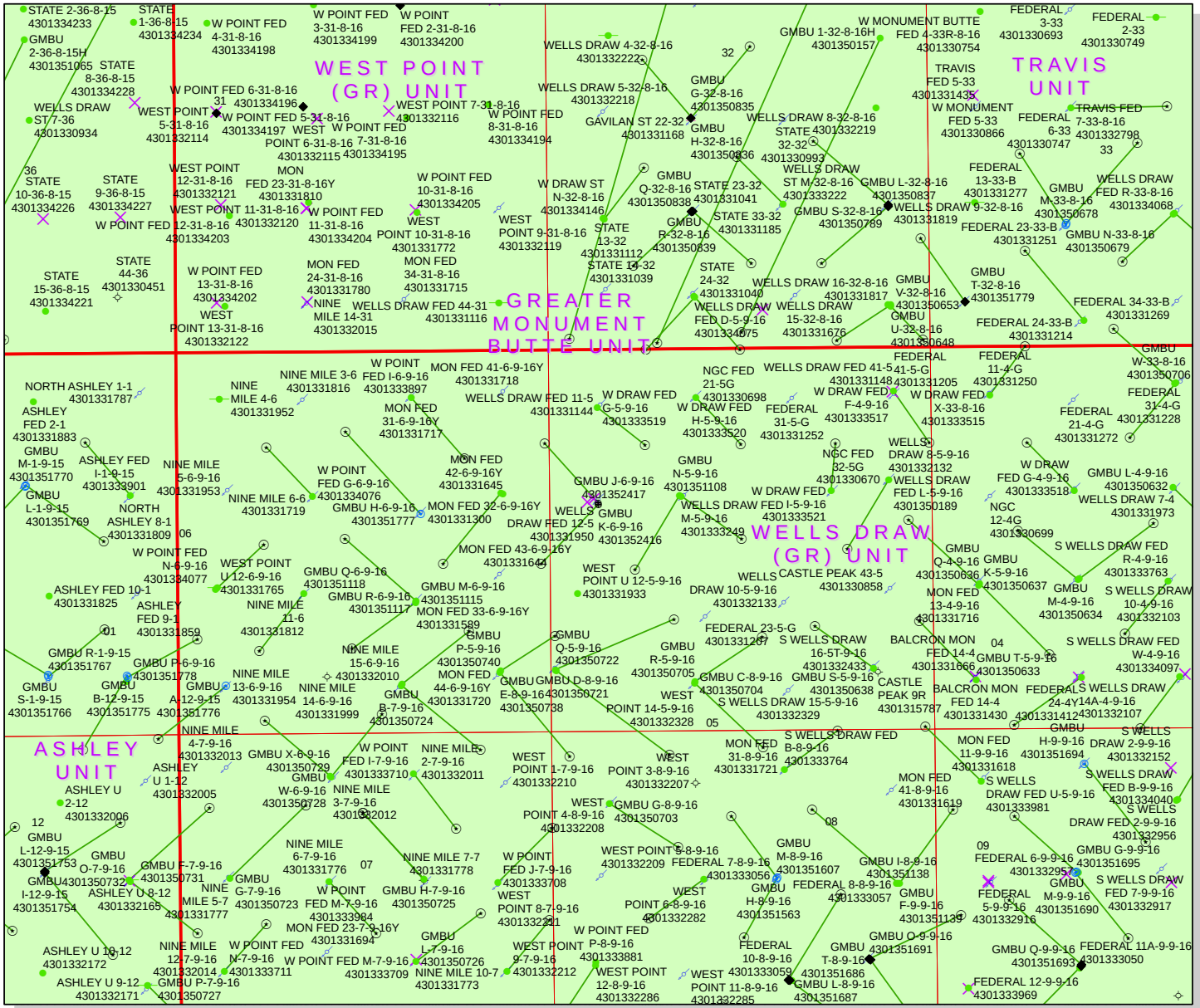
| | |
|---|---|
| Emulsion Line | ..... |
| Load Rack | - - - - - - - - |
| Water Line | — · — · — |
| Gas Sales | — · · — · · — |
| Oil Line | ——— |

NOT TO SCALE

| | | | | | |
|---|---|---|---|---|---|
| SURVEYED BY: | S.V. | DATE SURVEYED: | 03-21-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: | F.T.M. | DATE DRAWN: | 03-19-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: | NONE | REVISED: | | | |

RECEIVED: August 22, 2013

API Well Number: 43013524160000




**API Number: 4301352416**

**Well Name: GMBU K-6-9-16**

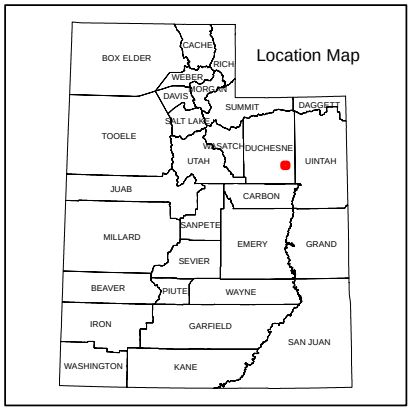
**Township T09.0S Range R16.0E Section 05**

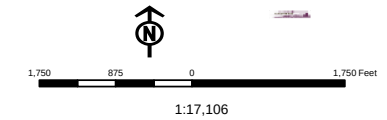
**Meridian: SLBM**

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
ACTIVE
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED




1:17,106

RECEIVED: August 23, 2013

NEWFIELD

*VIA ELECTRONIC DELIVERY*

**Newfield Exploration Company**
1001 17th Street | Suite 2000
Denver, Colorado 80202
PH 303-893-0102 | FAX 303-893-0103

August 29, 2013

State of Utah, Division of Oil, Gas and Mining
ATTN: Diana Mason
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling
**GMBU K-6-9-16**
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R16E Section 5: SWNW (UTU-69744)
2135' FNL 675' FWL

At Target: T9S-R15E Section 6: NESE (UTU-74390)
2336' FSL 120' FEL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 8/26/2013, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-exiting roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4121 or by email at lburget@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

Leslie Burget

Leslie Burget
Land Associate

API Well Number: 43013524160000

Form 3160-3
(August 2007)

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: UTU69744

6. If Indian, Allottee or Tribe Name:

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.: GMBU

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.: GMBU K-6-9-16

2. Name of Operator: NEWFIELD EXPLORATION
Contact: HEATHER CALDER
E-Mail: hcalder@newfield.com

9. API Well No.:

3a. Address: ROUTE 3 BOX 3630
MYTON, UT 84052

3b. Phone No. (include area code)
Ph: 435-646-4936
Fx: 435-646-3031

10. Field and Pool, or Exploratory: MONUMENT BUTTE

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: SWNW 2135FNL 675FWL

At proposed prod. zone: NESE 2336FSL 120FEL

11. Sec., T., R., M., or Blk. and Survey or Area: Sec 5 T9S R16E Mer SLB

14. Distance in miles and direction from nearest town or post office*: 11 MILES SOUTH OF MYTON, UT

12. County or Parish: DUCHESNE

13. State: UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 120'

16. No. of Acres in Lease: 80.08

17. Spacing Unit dedicated to this well: 20.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.: 709'

19. Proposed Depth: 6437 MD
6320 TVD

20. BLM/BIA Bond No. on file: WYB000493

21. Elevations (Show whether DF, KB, RT, GL, etc.: 5807 GL

22. Approximate date work will start: 01/01/2014

23. Estimated duration: 7 DAYS

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

| 25. Signature | Name (Printed/Typed) | Date |
|---|---|---|
| (Electronic Submission) | HEATHER CALDER Ph: 435-646-4936 | 08/26/2013 |

Title: PRODUCTION TECHNICIAN

| Approved by (Signature) | Name (Printed/Typed) | Date |
|---|---|---|
| | | |

| Title | Office |
|---|---|
| | |

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Additional Operator Remarks (see next page)**

**Electronic Submission #218090 verified by the BLM Well Information System**
**For NEWFIELD EXPLORATION, sent to the Vernal**

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

API Well Number: 43013524160000

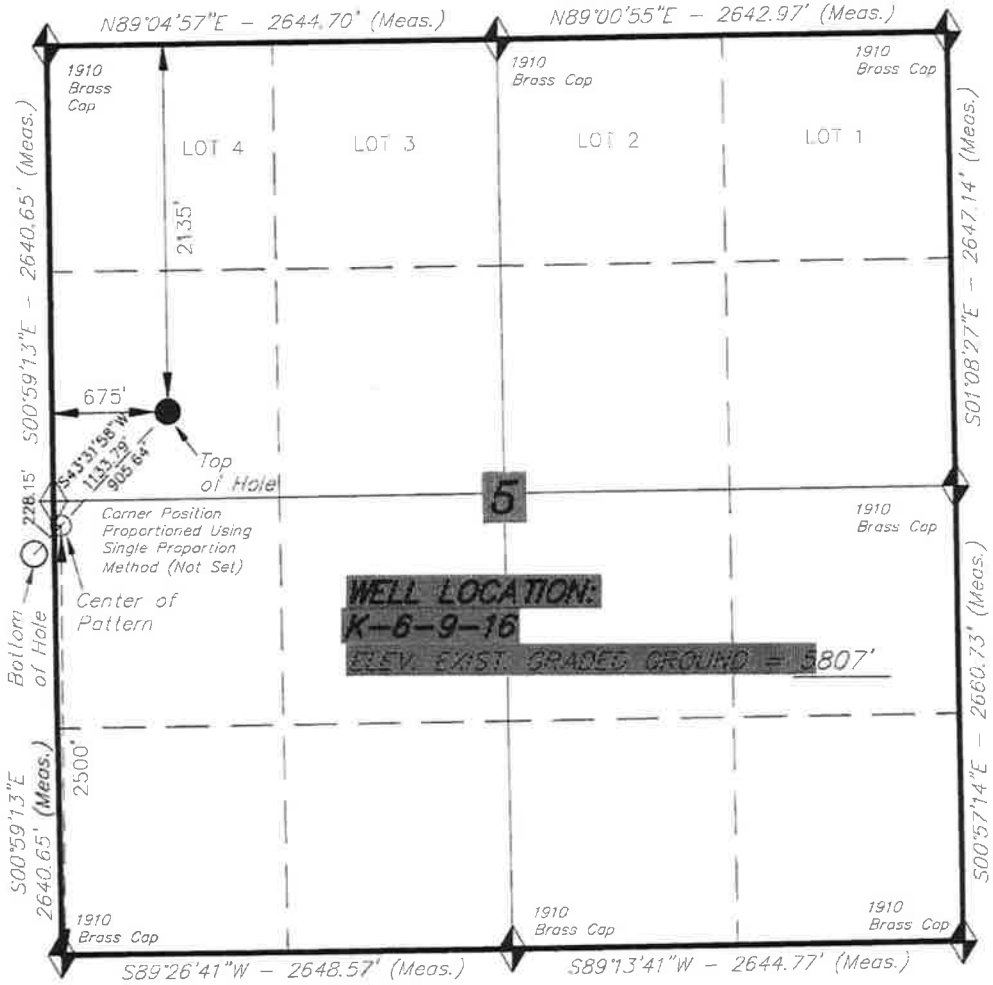
**Additional Operator Remarks:**

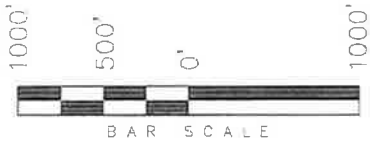
SURFACE HOLE LEASE:UTU69744
BOTTOM HOLE LEASE:UTU74390

# T9S, R16E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, K-6-9-16, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 5, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.





NOTES:
1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 2500' FSL & 40' FWL.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR No.189377 03-19-13 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No.
STATE OF UTAH

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

| NAD 83 (SURFACE LOCATION) |
|---|
| LATITUDE = 40°03'40.74" |
| LONGITUDE = 110°09'01.09" |
| NAD 27 (SURFACE LOCATION) |
| LATITUDE = 40°03'40.88" |
| LONGITUDE = 110°08'58.54" |
| NAD 83 (CENTER OF PATTERN) |
| LATITUDE = 40°03'34.35" |
| LONGITUDE = 110°09'09.24" |
| NAD 27 (CENTER OF PATTERN) |
| LATITUDE = 40°03'34.48" |
| LONGITUDE = 110°09'06.69" |

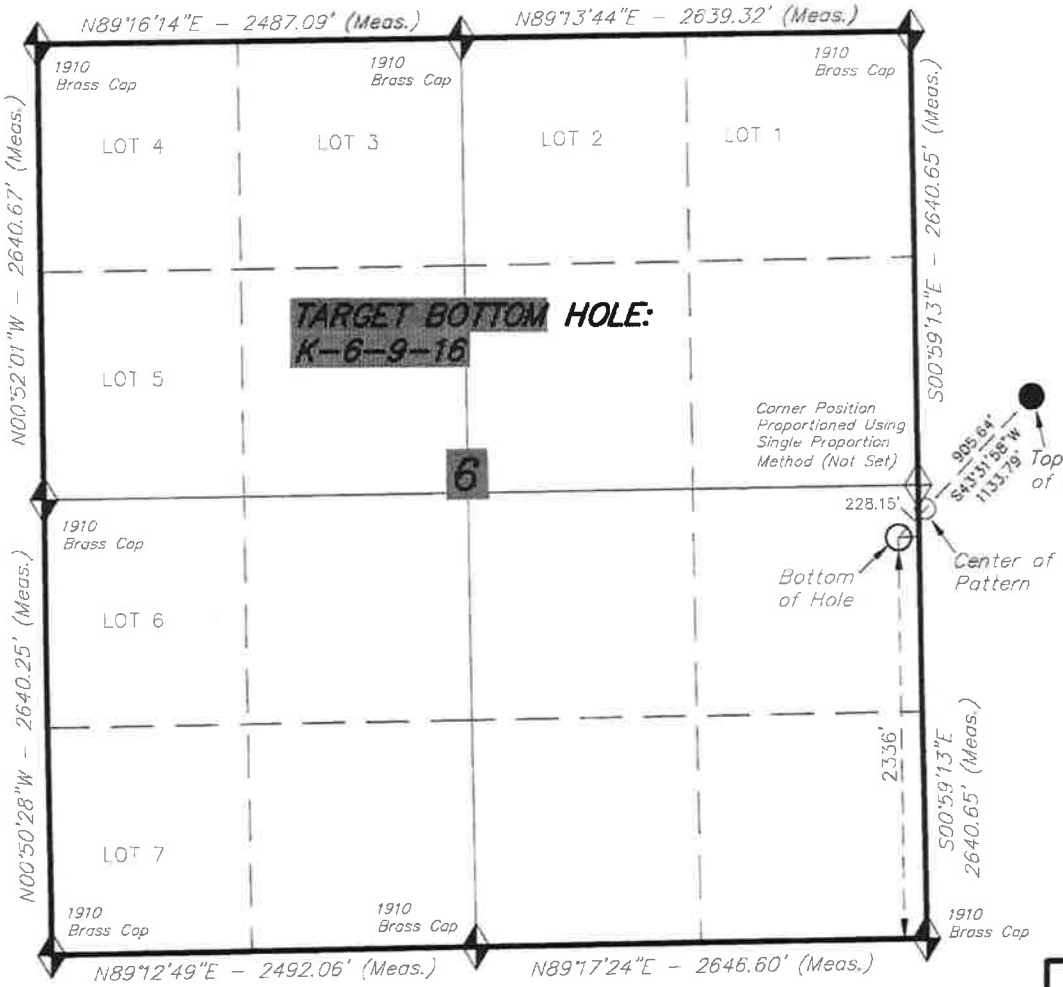

TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501


| | | |
|---|---|---|
| DATE SURVEYED: 03-21-11 | SURVEYED BY: S.V. | VERSION: |
| DATE DRAWN: 03-25-11 | DRAWN BY: M.W. | V2 |
| REVISED: 03-19-13 F.T.M. | SCALE: 1" = 1000' | |

# T9S, R16E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, K-6-9-16,
LOCATED AS SHOWN IN THE NE 1/4
SE 1/4 OF SECTION 6, T9S, R16E,
S.L.B.&M. DUCHESNE COUNTY, UTAH.




1000' 500' 0 1000'

BAR SCALE

NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
4. The Bottom of Hole footages are 2336' FSL & 120' FEL.

N

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR No.189377 03-19-13 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No.
STATE OF UTAH

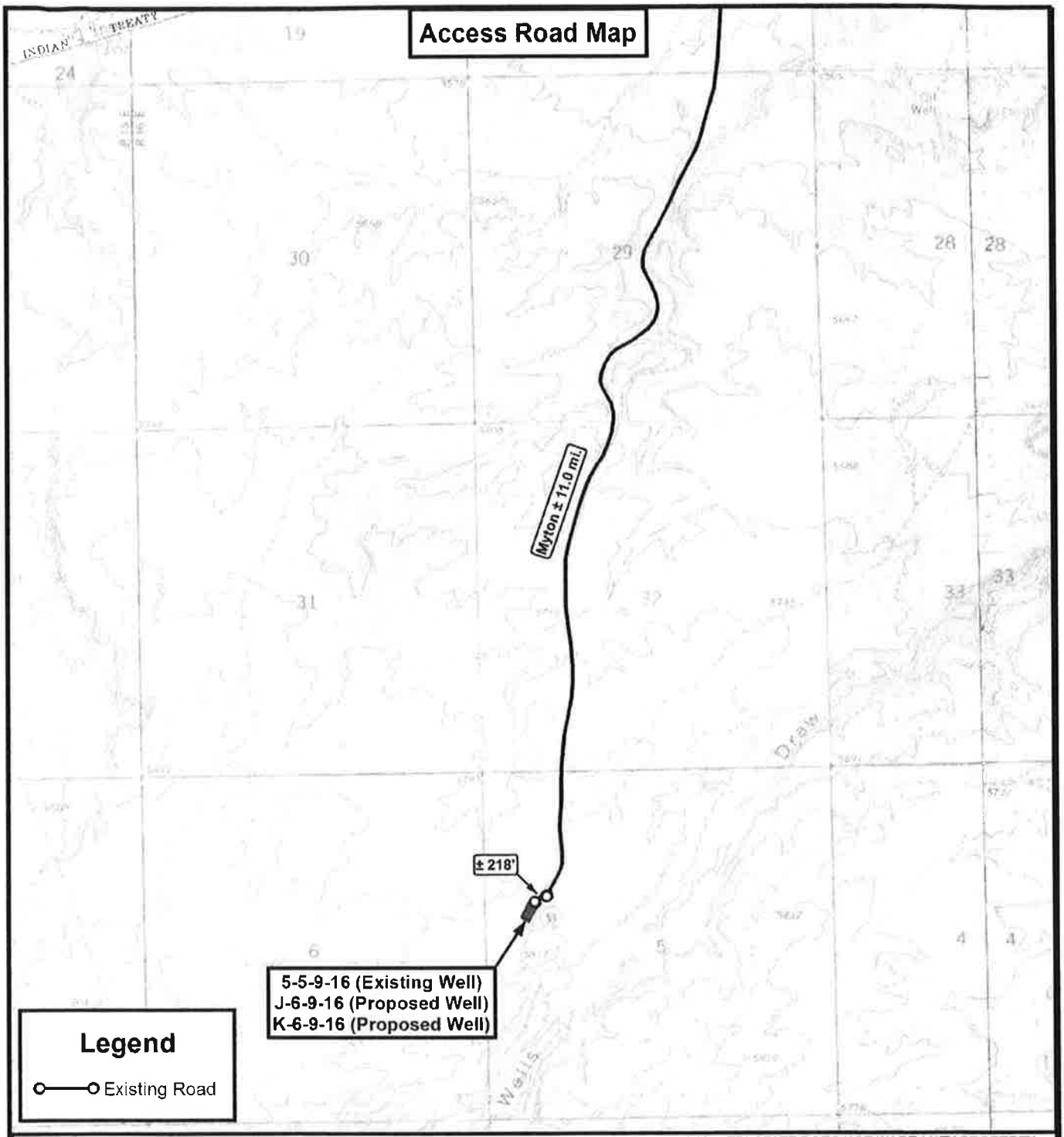
= SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

| NAD 83 (BOTTOM HOLE LOCATION) |
|---|
| LATITUDE = 40°03'32.73" |
| LONGITUDE = 110°09'11.29" |
| **NAD 27 (BOTTOM HOLE LOCATION)** |
| LATITUDE = 40°03'32.87" |
| LONGITUDE = 110°09'08.74" |


TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501


| | | |
|---|---|---|
| DATE SURVEYED: 03-21-11 | SURVEYED BY: S.V. | VERSION: |
| DATE DRAWN: 03-25-11 | DRAWN BY: M.W. | V2 |
| REVISED: 03-19-13 F.T.M. | SCALE: 1" = 1000' | |




THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

**NEWFIELD EXPLORATION COMPANY**
5-5-9-16 (Existing Well)
J-6-9-16 (Proposed Well)
K-6-9-16 (Proposed Well)
SEC. 5, T9S, R16E, S.L.B.&M. Duchesne County, UT.

| DRAWN BY: | C.H.M. | REVISED: | 03-19-13 A.P.C. | VERSION: |
|---|---|---|---|---|
| DATE: | 05-24-2011 | | | V2 |
| SCALE: | 1 " = 2,000 ' | | | |

**TOPOGRAPHIC MAP** — SHEET B

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

**Utah State Office**
**440 West 200 South, Suite 500**
**Salt Lake City, UT 84101**

**IN REPLY REFER TO:**
**3160**
**(UT-922)**

September 3, 2013

Memorandum

To: Assistant Field Office Manager Minerals,
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

| API # | WELL NAME | LOCATION |
|---|---|---|
| (Proposed PZ GREEN RIVER) | | |
| 43-013-52377 | GMBU G-13-9-15 | Sec 13 T09S R15E 1999 FNL 2250 FWL<br>BHL Sec 13 T09S R15E 1137 FNL 0901 FWL |
| 43-013-52388 | GMBU Q-18-9-16 | Sec 18 T09S R16E 1945 FSL 0590 FWL<br>BHL Sec 18 T09S R16E 1188 FSL 1254 FWL |
| 43-013-52389 | GMBU N-18-9-16 | Sec 18 T09S R16E 1964 FSL 0581 FWL<br>BHL Sec 18 T09S R16E 2360 FNL 1449 FWL |
| 43-013-52403 | GMBU U-21-8-17 | Sec 27 T08S R17E 0676 FNL 1301 FWL<br>BHL Sec 21 T08S R17E 0312 FSL 0244 FEL |
| 43-013-52404 | GMBU A-33-8-17 | Sec 34 T08S R17E 0685 FNL 0902 FWL<br>BHL Sec 33 T08S R17E 0115 FNL 0137 FEL |
| 43-013-52406 | GMBU X-27-8-17 | Sec 34 T08S R17E 0672 FNL 0918 FWL<br>BHL Sec 27 T08S R17E 0477 FSL 1404 FWL |
| 43-013-52407 | GMBU E-13-9-15 | Sec 11 T09S R15E 0636 FSL 0708 FEL<br>BHL Sec 13 T09S R15E 0186 FNL 0208 FWL |
| 43-013-52408 | GMBU U-15-9-15 | Sec 23 T09S R15E 0537 FNL 0687 FWL<br>BHL Sec 15 T09S R15E 0172 FSL 0146 FEL |
| 43-013-52409 | GMBU G-23-9-15 | Sec 23 T09S R15E 0558 FNL 0685 FWL<br>BHL Sec 23 T09S R15E 1415 FNL 1497 FWL |
| 43-013-52410 | GMBU X-14-9-15 | Sec 23 T09S R15E 0666 FNL 2006 FWL<br>BHL Sec 14 T09S R15E 0160 FSL 1164 FWL |

RECEIVED: September 03, 2013

| API # | WELL NAME | LOCATION |
|---|---|---|
| (Proposed PZ GREEN RIVER) | | |
| 43-013-52411 | GMBU G-22-9-15 | Sec 22 T09S R15E 1909 FNL 1135 FWL<br>BHL Sec 22 T09S R15E 1179 FNL 0772 FWL |
| 43-013-52412 | GMBU H-23-9-15 | Sec 23 T09S R15E 0667 FNL 2027 FWL<br>BHL Sec 23 T09S R15E 1413 FNL 2537 FEL |
| 43-013-52413 | GMBU H-22-9-15 | Sec 22 T09S R15E 1926 FNL 1148 FWL<br>BHL Sec 22 T09S R15E 1167 FNL 2319 FEL |
| 43-013-52414 | GMBU I-22-9-15 | Sec 22 T09S R15E 1982 FNL 1880 FEL<br>BHL Sec 22 T09S R15E 1060 FNL 1071 FEL |
| 43-013-52415 | GMBU G-3-9-17 | Sec 03 T09S R17E 1902 FNL 1994 FWL<br>BHL Sec 03 T09S R17E 1103 FNL 1262 FWL |
| 43-013-52416 | GMBU K-6-9-16 | Sec 05 T09S R16E 2135 FNL 0675 FWL<br>BHL Sec 06 T09S R16E 2336 FSL 0120 FEL |
| 43-013-52417 | GMBU J-6-9-16 | Sec 05 T09S R16E 2115 FNL 0669 FWL<br>BHL Sec 06 T09S R16E 1294 FNL 0058 FEL |
| 43-013-52418 | GMBU M-24-9-15 | Sec 24 T09S R15E 2079 FNL 2071 FEL<br>BHL Sec 24 T09S R15E 2317 FSL 2533 FWL |
| 43-013-52419 | GMBU L-24-9-15 | Sec 24 T09S R15E 2096 FNL 2058 FEL<br>BHL Sec 24 T09S R15E 2361 FSL 1235 FEL |
| 43-013-52420 | GMBU K-24-9-15 | Sec 19 T09S R16E 1834 FNL 0481 FWL<br>BHL Sec 24 T09S R15E 2410 FSL 0107 FEL |
| 43-013-52421 | GMBU J-24-9-15 | Sec 19 T09S R16E 1831 FNL 0502 FWL<br>BHL Sec 24 T09S R15E 1219 FNL 0112 FEL |
| 43-013-52422 | GMBU M-22-9-15 | Sec 22 T09S R15E 2002 FNL 1873 FEL<br>BHL Sec 22 T09S R15E 2516 FSL 1903 FWL |
| 43-013-52423 | GMBU B-19-9-16 | Sec 18 T09S R16E 0637 FSL 2334 FEL<br>BHL Sec 19 T09S R16E 0027 FNL 0752 FEL |
| 43-013-52424 | GMBU 118-32-8-17 | Sec 32 T08S R17E 2310 FSL 2158 FEL<br>BHL Sec 32 T08S R17E 2332 FNL 1981 FEL |
| 43-013-52425 | GMBU 126-32-8-17 | Sec 32 T08S R17E 0861 FSL 1953 FEL<br>BHL Sec 32 T08S R17E 1518 FSL 1952 FEL |
| 43-013-52436 | GMBU R-18-9-16 | Sec 18 T09S R16E 1031 FSL 2024 FWL<br>BHL Sec 18 T09S R16E 1543 FSL 2338 FEL |
| 43-013-52437 | GMBU I-26-9-15 | Sec 23 T09S R15E 0713 FSL 1818 FEL<br>BHL Sec 26 T09S R15E 1284 FNL 1375 FEL |
| 43-013-52438 | GMBU 112-1-9-16 | Sec 01 T09S R16E 1945 FNL 0682 FWL<br>BHL Sec 01 T09S R16E 1299 FNL 0716 FWL |
| 43-013-52439 | GMBU 111-1-9-16 | Sec 01 T09S R16E 2071 FNL 2004 FWL<br>BHL Sec 01 T09S R16E 1255 FNL 1803 FWL |
| 43-013-52440 | GMBU 118-10-9-16 | Sec 10 T09S R16E 1983 FSL 1941 FEL<br>BHL Sec 10 T09S R16E 2241 FNL 2129 FEL |
| 43-013-52441 | GMBU 125-6-9-17 | Sec 06 T09S R17E 2065 FSL 0784 FEL<br>BHL Sec 06 T09S R17E 1110 FSL 0492 FEL |

RECEIVED: September 03, 2013

| API # | WELL NAME | LOCATION |
|---|---|---|
| (Proposed PZ GREEN RIVER) | | |
| 43-013-52442 | GMBU 117-6-9-17 | Sec 06 T09S R17E 1826 FNL 0938 FEL |
| | | BHL Sec 06 T09S R17E 2485 FSL 0619 FEL |
| 43-013-52443 | GMBU 115-6-9-17 | Sec 06 T09S R17E 1841 FNL 0954 FEL |
| | | BHL Sec 06 T09S R17E 2032 FNL 1536 FEL |
| 43-013-52444 | GMBU 109-6-9-17 | Sec 06 T09S R17E 0798 FNL 0652 FEL |
| | | BHL Sec 06 T09S R17E 1456 FNL 0638 FEL |
| 43-013-52445 | GMBU 110-34-8-16 | Sec 34 T08S R16E 0691 FNL 1952 FEL |
| | | BHL Sec 34 T08S R16E 1396 FNL 2028 FEL |
| 43-013-52446 | GMBU 102-35-8-16 | Sec 26 T08S R16E 0640 FSL 1971 FEL |
| | | BHL Sec 35 T08S R16E 0521 FNL 1700 FEL |
| 43-013-52447 | GMBU 116-6-9-17 | Sec 05 T09S R17E 1861 FNL 0559 FWL |
| | | BHL Sec 06 T09S R17E 2016 FNL 0410 FEL |
| 43-013-52448 | GMBU 119-31-8-17 | Sec 31 T08S R17E 2051 FSL 2017 FWL |
| | | BHL Sec 31 T08S R17E 2352 FNL 1902 FWL |
| 43-013-52449 | GMBU 103-1-9-16 | Sec 36 T08S R16E 0721 FSL 2308 FWL |
| | | BHL Sec 01 T09S R16E 0274 FNL 2041 FWL |
| 43-013-52451 | GMBU 118-6-9-17 | Sec 06 T09S R17E 2143 FNL 1952 FEL |
| | | BHL Sec 06 T09S R17E 2290 FSL 1960 FEL |
| 43-013-52457 | GMBU 2-26-9-15 | Sec 23 T09S R15E 0692 FSL 1820 FEL |
| | | BHL Sec 26 T09S R15E 0647 FNL 1950 FEL |
| 43-013-52458 | GMBU 11-18-9-16 | Sec 18 T09S R16E 1026 FSL 2004 FWL |
| | | BHL Sec 18 T09S R16E 1982 FSL 1865 FWL |

This office has no objection to permitting the wells at this time.

Michael Coulthard

Digitally signed by Michael Coulthard
DN: cn=Michael Coulthard, o=Bureau of Land Management, ou=Division of Minerals, email=mcoultha@blm.gov, c=US
Date: 2013.09.03 08:22:36 -06'00'

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:9-3-13

RECEIVED: September 03, 2013

# WORKSHEET
# APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 8/22/2013
**API NO. ASSIGNED:** 43013524160000
**WELL NAME:** GMBU K-6-9-16
**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)
**PHONE NUMBER:** 435 646-4936
**CONTACT:** Heather Calder

**PROPOSED LOCATION:** SWNW 05 090S 160E
**Permit Tech Review:** ☑

**SURFACE:** 2135 FNL 0675 FWL
**Engineering Review:** ☐

**BOTTOM:** 2336 FSL 0120 FEL
**Geology Review:** ☑

**COUNTY:** DUCHESNE
**LATITUDE:** 40.06131
**LONGITUDE:** -110.15030
**UTM SURF EASTINGS:** 572466.00
**NORTHINGS:** 4434907.00
**FIELD NAME:** MONUMENT BUTTE
**LEASE TYPE:** 1 - Federal
**LEASE NUMBER:** UTU-69744
**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER
**SURFACE OWNER:** 1 - Federal
**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- ☑ **PLAT**
- ☑ **Bond:** FEDERAL - WYB000493
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 437478
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

**Commingling Approved**

**LOCATION AND SITING:**

- ☐ **R649-2-3.**

**Unit:** GMBU (GRRV)

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

**Board Cause No:** Cause 213-11
**Effective Date:** 11/30/2009
**Siting:** Suspends General Siting

- ☑ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:**
4 - Federal Approval - dmason
15 - Directional - dmason
27 - Other - bhill

RECEIVED: September 04, 2013

GARY R. HERBERT
*Governor*
GREGORY S. BELL
*Lieutenant Governor*

# State of Utah
**DEPARTMENT OF NATURAL RESOURCES**
MICHAEL R. STYLER
*Executive Director*
**Division of Oil, Gas and Mining**
JOHN R. BAZA
*Division Director*

# Permit To Drill
**********

**Well Name:** GMBU K-6-9-16
**API Well Number:** 43013524160000
**Lease Number:** UTU-69744
**Surface Owner:** FEDERAL
**Approval Date:** 9/4/2013

**Issued to:**
NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

**Authority:**
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

**Notification Requirements:**
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:
- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at http://oilgas.ogm.utah.gov

**Reporting Requirements:**
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

For John Rogers
Associate Director, Oil & Gas

RECEIVED

SEP 03 2013

BLM

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

## APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU69744

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
GMBU

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
GMBU K-6-9-16

2. Name of Operator
NEWFIELD EXPLORATION
Contact: HEATHER CALDER
E-Mail: hcalder@newfield.com

9. API Well No.
43-013-52416

3a. Address
ROUTE 3 BOX 3630
MYTON, UT 84052

3b. Phone No. (include area code)
Ph: 435-646-4936
Fx: 435-646-3031

10. Field and Pool, or Exploratory
MONUMENT BUTTE

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface SWNW 2135FNL 675FWL

At proposed prod. zone NESE 2336FSL 120FEL

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 5 T9S R16E Mer SLB

14. Distance in miles and direction from nearest town or post office*
11 MILES SOUTH OF MYTON, UT

12. County or Parish
DUCHESNE

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
120'

16. No. of Acres in Lease
80.08

17. Spacing Unit dedicated to this well
20.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
709'

19. Proposed Depth
6437 MD
6320 TVD

20. BLM/BIA Bond No. on file
WYB000493

21. Elevations (Show whether DF, KB, RT, GL, etc.
5807 GL

22. Approximate date work will start
01/01/2014

23. Estimated duration
7 DAYS

### 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature
(Electronic Submission)

Name (Printed/Typed)
HEATHER CALDER Ph: 435-646-4936

Date
08/26/2013

Title
PRODUCTION TECHNICIAN

Approved by (Signature)

Name (Printed/Typed)
Jerry Kenczka

Date
JAN 06 2014

Title

Office

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
JAN 09 2014
DIV. OF OIL, GAS & MINING

**Additional Operator Remarks (see next page)**

**Electronic Submission #218090 verified by the BLM Well Information System**
**For NEWFIELD EXPLORATION, sent to the Vernal**
**Committed to AFMSS for processing by LESLIE BUHLER on 09/04/2013 ()**

UDOGM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

**Additional Operator Remarks:**

SURFACE HOLE LEASE:UTU69744
BOTTOM HOLE LEASE:UTU74390

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

## *CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL*

| | | | |
|---|---|---|---|
| **Company:** | **Newfield Production Company** | **Location:** | **SWNW SEC 5 T92 R16E** |
| **Well No:** | **GMBU K-6-9-16** | **Lease No:** | **UTU69744** |
| **API No:** | **43-013-52416** | **Agreement:** | **UTU87538X** |

# OFFICE NUMBER: (435) 781-4400

# OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

| | |
|---|---|
| Location Construction<br>(Notify Environmental Scientist) | - Forty-Eight (48) hours prior to construction of location and access roads. |
| Location Completion<br>(Notify Environmental Scientist) | - Prior to moving on the drilling rig. |
| Spud Notice<br>(Notify Petroleum Engineer) | - Twenty-Four (24) hours prior to spudding the well. |
| Casing String & Cementing<br>(Notify Supv. Petroleum Tech.) | - Twenty-Four (24) hours prior to running casing and cementing all casing strings to:<br>blm_ut_vn_opreport@blm.gov |
| BOP & Related Equipment Tests<br>(Notify Supv. Petroleum Tech.) | - Twenty-Four (24) hours prior to initiating pressure tests. |
| First Production Notice<br>(Notify Petroleum Engineer) | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

***SURFACE USE PROGRAM***
***CONDITIONS OF APPROVAL (COAs)***

**Minerals and Paleontology**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**Green River District Reclamation Guidelines**

The Operator will comply with the requirements of the ***Green River District (GRD) Reclamation Guidelines*** formalized by Green River District Instructional Memo UTG000-2011-003 on March 28, 2011. Documentation of the compliance will be as follows:

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the GRD Reclamation Guidelines have been met (30% or greater basal cover).

- Prior to beginning new surface disturbance, the operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) providing the results of the noxious weed inventory described in the GRD Reclamation Guidelines (2011). If weeds are found the report shall include 1) A GPS location recorded in North American Datum 1983; 2) species; 3) canopy cover or number of plants; 4) and size of infestation (estimate square feet or acres. Information shall be also documented in the reclamation report.

**CONDITIONS OF APPROVAL**

**Wildlife**

**In accordance with the Record of Decision for the Castle Peak and Eightmile Flat Oil and Gas Expansion Project, Newfield Rocky Mountains Inc., the following COA's are required:**

- WFM-1 On level or gently sloping ground (5 percent slope or less) Newfield will elevate surface pipelines (4 inches or greater in diameter) a minimum of 6 inches above the ground to allow passage of small animals beneath the pipe. This ground clearance will be achieved by placing the pipeline on blocks at intervals of 150 to 200 feet.

- WFM-4 Newfield will install noise reduction devices on all pump jacks to reduce intermittent noise to 45 dBA at 660 feet from the source.

**COA's derived from mitigating measures in the EA:**

**If construction and drilling is anticipated during any of the following wildlife seasonal spatial restrictions, a BLM biologist or a qualified consulting firm biologist must conduct applicable surveys using an accepted protocol prior to any ground disturbing activities.**

- If it is anticipated that construction or drilling will occur during Mountain plover nesting season (May 1 – June 15), a BLM biologist will be notified to determine if surveys are necessary prior to beginning operations. If surveys are deemed necessary, depending on the results permission to proceed may or may not, be granted by the BLM Authorized Officer.

**For protection of T&E Fish if drawing water from the Green River**

- For areas of fresh water collection, an infiltration gallery will be constructed in a Service approved location. An infiltration gallery is basically a pit or trench dug within the floodplain to a depth below the water table. Water is drawn from the pit rather than from the river directly. If this is not possible, limit pumping within the river to off-channel locations that do not connect to the river during high spring flows.

- If water cannot be drawn using the measures above and the pump head will be located in the river channel where larval fish are known to occur, the following measures apply:
  - Avoid pumping from low-flow or no-flow areas as these habitats tend to concentrate larval fished
  - Avoid pumping to the greatest extent possible, during that period of the year when larval fish may be present (see previous bullet); and
  - Avoid pumping, to the greatest extent possible, during the midnight hours (10:00 p.m. to 2:00 a.m.) as larval drift studies indicate that this is a period of greatest daily activity. Dusk is the preferred pumping time, as larval drift abundance is lowest during this time.
  - Screen all pump intakes with 3/32-inch mesh material.

- Report any fish impinged on the intake screen to the FWS office (801.975.3330) and the:
  Utah Division of Wildlife Resources
  Northeastern Region
  152 East 100 North
  Vernal, UT 84078
  (435) 781-9453

**Air Quality**

1. All internal combustion equipment will be kept in good working order.
2. Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer. Dust suppressant such as magnesium chloride or fresh water may be used, as needed, during the drilling phase.
3. Open burning of garbage or refuse will not occur at well sites or other facilities.
4. Drill rigs will be equipped with Tier II or better diesel engines.
5. Low bleed pneumatics will be installed on separator dump valves and other controllers.
6. During completion, no venting will occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
7. Telemetry will be installed to remotely monitor and control production.

8. When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour $NO_2$ National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas–fired drill rigs, installation of $NO_X$ controls, time/use restrictions, and/or drill rig spacing.
9. All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of $NO_X$ per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
10. All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of $NO_X$ per horsepower-hour.
11. Green completions will be used for all well completion activities where technically feasible.
12. Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.

***DOWNHOLE PROGRAM***
***CONDITIONS OF APPROVAL (COAs)***

**SITE SPECIFIC DOWNHOLE COAs:**

- If applicable, Variances to OO2, Section III.E shall be granted as requested regarding the air drilling program for the surface hole.
- Newfield Production Co. shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008).
- Cement for the production casing shall be brought 200 feet above the surface casing shoe.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

**OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

- The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
- The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
- Unit agreement and/or participating area name and number, if applicable.
- Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

-

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be

obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

# STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU-69744

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:** GMBU (GRRV)

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** GMBU K-6-9-16

**2. NAME OF OPERATOR:** NEWFIELD PRODUCTION COMPANY

**9. API NUMBER:** 43013524160000

**3. ADDRESS OF OPERATOR:** Rt 3 Box 3630 , Myton, UT, 84052

**PHONE NUMBER:** 435 646-4825 Ext

**9. FIELD and POOL or WILDCAT:** MONUMENT BUTTE

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 2135 FNL 0675 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SWNW Section: 05 Township: 09.0S Range: 16.0E Meridian: S

**COUNTY:** DUCHESNE

**STATE:** UTAH

**11.** CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ SUBSEQUENT REPORT Date of Work Completion: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| ✓ SPUD REPORT Date of Spud: 6/28/2014 | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT Report Date: | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

On 6/28/14 drill & set 5' of 14" conductor. Drill f/5' to 336'KB of 12 1/4" hole. P/U & run 7 joints of 8 5/8" casing set depth 330'KB. On 6/30/14 Cemnent w/Halliburton w/155 sx of 15.8 # 1.19 yield G Neat cement returned 7 bbls to pit and bumped plug to 500 psi.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
July 01, 2014

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Cherei Neilson | 435 646-4883 | Drilling Techinacian |
| **SIGNATURE** N/A | | **DATE** 7/1/2014 |

RECEIVED: Jul. 01, 2014

NEWFIELD

# Casing

## Conductor

| Legal Well Name | Wellbore Name |
|---|---|
| GMBU K-6-9-16 | Original Hole |

| API/UWI | Surface Legal Location | Field Name | Well Type | Well Configuration Type |
|---|---|---|---|---|
| 4313524160000 | SWNW 2135 FNL 675 FWL Sec 5 T9S R16E | GMBU CTB2 | Development | Slant |

| Well RC | County | State/Province | Spud Date | Final Rig Release Date |
|---|---|---|---|---|
| 500366863 | Duchesne | Utah | | |

### Wellbore

| Wellbore Name | Kick Off Depth (ftKB) |
|---|---|
| Original Hole | |

| Section Des | Size (in) | Actual Top Depth (MD) (ftKB) | Actual Bottom Depth (MD) (ftKB) | Start Date | End Date |
|---|---|---|---|---|---|
| Conductor | 14 | 11 | 16 | 6/28/2014 | 6/28/2014 |

### Wellhead

| Type | Install Date | Service | Comment |
|---|---|---|---|
| | | | |

### Wellhead Components

| Des | Make | Model | SN | WP Top (psi) |
|---|---|---|---|---|
| | | | | |

### Casing

| Casing Description | Set Depth (ftKB) | Run Date | Set Tension (kips) |
|---|---|---|---|
| Conductor | 16 | 6/28/2014 | |

| Centralizers | Scratchers |
|---|---|
| | |

### Casing Components

| Item Des | OD (in) | ID (in) | Wt (lb/ft) | Grade | Top Thread | Jts | Len (ft) | Top (ftKB) | Btm (ftKB) | Mk-up Tq (ft•lb) | Class | Max OD (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conductor | 14 | 13.500 | 36.75 | H-40 | Welded | 1 | 5.00 | 11.0 | 16.0 | | | |

### Jewelry Details

#### External Casing Packer

| Type | Setting Requirement | Release Requirements | Inflation Method | Vol Inflation (gal) | Equiv Hole Sz (in) |
|---|---|---|---|---|---|
| | | | | | |

| Inflation Fluid Type | Infl Fl Dens (lb/gal) | P AV Set (psi) | AV Acting Pressure (psi) | P ICV Set (psi) | P ICV Act (psi) | ECP Load (1000lbf) | Seal Load (1000lbf) |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

#### Slotted Liner

| % Open Area (%) | Perforation Min Dimension (in) | Perforation Max Dimension (in) | Axial Perf Spacing (ft) | Perf Rows | Blank Top Length (ft) | Blank Bottom Length (ft) |
|---|---|---|---|---|---|---|
| | | | | | | |

| Slot Description | Slot Pattern | Slot Length (in) | Slot Width (in) | Slot Frequency | Screen Gauge (ga) |
|---|---|---|---|---|---|
| | | | | | |

#### Liner Hanger

| Retrievable? | Elastomer Type | Element Center Depth (ft) | Polish Bore Size (in) | Polish Bore Length (ft) |
|---|---|---|---|---|
| | | | | |

| Slip Description | Set Mechanics |
|---|---|
| | |

| Setting Procedure |
|---|
| |

| Unsetting Procedure |
|---|
| |



RECEIVED: Jul. 01, 2014

NEWFIELD

# Casing

## Surface

| Legal Well Name | Wellbore Name |
|---|---|
| GMBU K-6-9-16 | Original Hole |

| API/UWI | Surface Legal Location | Field Name | Well Type | Well Configuration Type |
|---|---|---|---|---|
| 4313524160000 | SWNW 2135 FNL 675 FWL Sec 5 T9S R16E | GMBU CTB2 | Development | Slant |

| Well RC | County | State/Province | Spud Date | Final Rig Release Date |
|---|---|---|---|---|
| 500366863 | Duchesne | Utah | | |

### Wellbore

| Wellbore Name | Kick Off Depth (ftKB) |
|---|---|
| Original Hole | |

| Section Des | Size (in) | Actual Top Depth (MD) (ftKB) | Actual Bottom Depth (MD) (ftKB) | Start Date | End Date |
|---|---|---|---|---|---|
| Conductor | 14 | 11 | 16 | 6/28/2014 | 6/28/2014 |
| Vertical | 12 1/4 | 16 | 336 | 6/28/2014 | 6/28/2014 |

### Wellhead

| Type | Install Date | Service | Comment |
|---|---|---|---|
| | | | |

### Wellhead Components

| Des | Make | Model | SN | WP Top (psi) |
|---|---|---|---|---|
| | | | | |

### Casing

| Casing Description | Set Depth (ftKB) | Run Date | Set Tension (kips) |
|---|---|---|---|
| Surface | 330 | 6/28/2014 | |

| Centralizers | Scratchers |
|---|---|
| 3 | |

### Casing Components

| Item Des | OD (in) | ID (in) | Wt (lb/ft) | Grade | Top Thread | Jts | Len (ft) | Top (ftKB) | Btm (ftKB) | Mk-up Tq (ft•lb) | Class | Max OD (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wellhead | 8 5/8 | 8.097 | 24.00 | J-55 | ST&C | 1 | 2.00 | 11.2 | 13.2 | | | |
| Cut Off | 8 5/8 | 8.097 | 24.00 | J-55 | ST&C | 1 | 43.00 | 13.2 | 56.2 | | | |
| Casing Joints | 8 5/8 | 8.097 | 24.00 | J-55 | ST&C | 5 | 226.00 | 56.2 | 282.2 | | | |
| Float Collar | 8 5/8 | 8.097 | 24.00 | J-55 | ST&C | 1 | 1.00 | 282.2 | 283.2 | | | |
| Shoe Joint | 8 5/8 | 8.097 | 24.00 | J-55 | ST&C | 1 | 45.30 | 283.2 | 328.5 | | | |
| Guide Shoe | 8 5/8 | 8.097 | 24.00 | J-55 | ST&C | 1 | 1.50 | 328.5 | 330.0 | | | |

### Jewelry Details

#### External Casing Packer

| Type | Setting Requirement | Release Requirements | Inflation Method | Vol Inflation (gal) | Equiv Hole Sz (in) |
|---|---|---|---|---|---|
| | | | | | |

| Inflation Fluid Type | Infl Fl Dens (lb/gal) | P AV Set (psi) | AV Acting Pressure (psi) | P ICV Set (psi) | P ICV Act (psi) | ECP Load (1000lbf) | Seal Load (1000lbf) |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

#### Slotted Liner

| % Open Area (%) | Perforation Min Dimension (in) | Perforation Max Dimension (in) | Axial Perf Spacing (ft) | Perf Rows | Blank Top Length (ft) | Blank Bottom Length (ft) |
|---|---|---|---|---|---|---|
| | | | | | | |

| Slot Description | Slot Pattern | Slot Length (in) | Slot Width (in) | Slot Frequency | Screen Gauge (ga) |
|---|---|---|---|---|---|
| | | | | | |

#### Liner Hanger

| Retrievable? | Elastomer Type | Element Center Depth (ft) | Polish Bore Size (in) | Polish Bore Length (ft) |
|---|---|---|---|---|
| | | | | |

| Slip Description | Set Mechanics |
|---|---|
| | |

| Setting Procedure |
|---|
| |

| Unsetting Procedure |
|---|
| |



RECEIVED: Jul. 01, 2014

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By Branden Arnold Phone Number 435-401-0223
Well Name/Number GMBU K-6-9-16
Qtr/Qtr SW/NW Section 5 Township 9S Range 16E
Lease Serial Number UTU-69744
API Number 43-013-52416

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 6/28/14 8:00 AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

☐ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 6/28/14 3:00 AM ☐ PM ☐

BOPE

☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

# STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU-69744

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:** GMBU (GRRV)

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** GMBU K-6-9-16

**2. NAME OF OPERATOR:** NEWFIELD PRODUCTION COMPANY

**9. API NUMBER:** 43013524160000

**3. ADDRESS OF OPERATOR:** Rt 3 Box 3630 , Myton, UT, 84052

**PHONE NUMBER:** 435 646-4825 Ext

**9. FIELD and POOL or WILDCAT:** MONUMENT BUTTE

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 2135 FNL 0675 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SWNW Section: 05 Township: 09.0S Range: 16.0E Meridian: S

**COUNTY:** DUCHESNE

**STATE:** UTAH

**11.** CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT<br>Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ SUBSEQUENT REPORT<br>Date of Work Completion: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ✓ DRILLING REPORT<br>Report Date:<br>8/17/2014 | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ✓ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

The above well was placed on production on 08/17/2014 at 08:30 hours.

**Accepted by the Utah Division of Oil, Gas and Mining**
**FOR RECORD ONLY**
September 09, 2014

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Jennifer Peatross | 435 646-4885 | Production Technician |
| **SIGNATURE** N/A | | **DATE** 9/8/2014 |

RECEIVED: Sep. 08, 2014

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: UTU69744

1a. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.: UTU87538X

2. Name of Operator: NEWFIELD PRODUCTION COMPANY

8. Lease Name and Well No.: GMBU K-6-9-16

3. Address: ROUTE #3 BOX 3630, MYTON, UT 84052

3a. Phone No. *(include area code)*: Ph:435-646-3721

9. API Well No.: 43-013-52416

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface: 2135' FNL 675' FWL (SW/NW) SEC 5 T9S R16E (UTU-69744)

10. Field and Pool or Exploratory: MONUMENT BUTTE

11. Sec., T., R., M., on Block and Survey or Area: SEC 5 T9S R16E Mer SLB

At top prod. interval reported below: 2629' FSL 173' FWL (NW/SW) SEC 5 T9S R16E (UTU-73087)

At total depth: 2356' FSL 111' FEL (NE/SE) SEC 6 T9S R16E (UTU-74390)

12. County or Parish: DUCHESNE

13. State: UT

14. Date Spudded: 06/28/2014

15. Date T.D. Reached: 07/16/2014

16. Date Completed: ☐ D & A ☑ Ready to Prod. 08/12/2014

17. Elevations (DF, RKB, RT, GL)*: 5807' GL 5818' KB

18. Total Depth: MD 6421' TVD 6305'

19. Plug Back T.D.: MD 6355' TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DUAL IND GRD, SP, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sks. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|---|---|---|---|---|---|---|---|---|---|
| 12-1/4" | 8-5/8" J-55 | 24 | 0' | 330' | | 155 CLASS G | | | |
| 7-7/8" | 5-1/2" J-55 | 15.50 | 0' | 6401' | | 240 Econocem | | 0' | |
| | | | | | | 415Expandacem | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|---|---|---|---|---|---|---|---|---|
| 2-7/8" | EOT@6300' | TA@6142' | | | | | | |

25. Producing Intervals / 26. Perforation Record

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|---|---|---|
| A) Green River | 4342' | 6149' | 4342' - 6149' MD | 0.34 | 107 | |
| B) | | | | | | |
| C) | | | | | | |
| D) | | | | | | |

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

| Depth Interval | Amount and Type of Material |
|---|---|
| 4342' - 6149' MD | Frac w/ 538,528#s of 20/40 white sand in 4,694 bbls of Lightning 17 fluid, in 5 stages. |
| | |
| | |
| | |

28. Production - Interval A

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| 8/8/14 | 8/18/14 | 24 | → | 100 | 0 | 234 | | | 2.5 X 1.75 X 24' RHAC |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | PRODUCING |

28a. Production - Interval B

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | |

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

| Date First Produced | Test Date | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate → | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

28c. Production - Interval D

| Date First Produced | Test Date | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate → | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name | Top Meas. Depth |
|---|---|---|---|---|---|
| | | | | GARDEN GULCH MARK | 3860' |
| | | | | GARDEN GULCH 1 | 4084' |
| | | | | GARDEN GULCH 2 | 4200' |
| | | | | POINT 3 | 4464' |
| | | | | X MRKR | 4731' |
| | | | | Y MRKR | 4766' |
| | | | | DOUGLAS CREEK MRK | 4881' |
| | | | | BI CARBONATE MRK | 5112' |
| | | | | B LIMESTONE MRK | 5216' |
| | | | | CASTLE PEAK | 5773' |
| | | | | BASAL CARBONATE | 6243' |
| | | | | WASATCH | 6368' |

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☑ Other: Drilling daily activity

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Heather Calder Title Regulatory Technician

Signature Heather Calder Date 08/19/2014

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

NEWFIELD

# NEWFIELD EXPLORATION

**USGS Myton SW (UT)**
**SECTION 5 T9, R16**
**K-6-9-16**
**Wellbore #1**

**Design: Actual**

# End of Well Report

**20 July, 2014**

PAYZONE

NEWFIELD

# Payzone Directional

End of Well Report

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well K-6-9-16 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Site:** | SECTION 5 T9, R16 | **MD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Well:** | K-6-9-16 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 5000.1 Single User Db |

**Project** USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | Utah Central Zone | | |

**Site** SECTION 5 T9, R16, SEC 5 T8S, R16E

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 7,198,917.07 usft | **Latitude:** | 40° 4' 30.000 N |
| **From:** | Lat/Long | **Easting:** | 2,019,727.79 usft | **Longitude:** | 110° 8' 40.000 W |
| **Position Uncertainty:** | 0.0 usft | **Slot Radius:** | 13-3/16 " | **Grid Convergence:** | 0.87 ° |

**Well** K-6-9-16, SHL: 40° 3' 40.740 -110° 9' 1.090

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.0 usft | **Northing:** | 7,193,908.58 usft | **Latitude:** | 40° 3' 40.740 N |
| | **+E/-W** | 0.0 usft | **Easting:** | 2,018,163.84 usft | **Longitude:** | 110° 9' 1.090 W |
| **Position Uncertainty** | | 0.0 usft | **Wellhead Elevation:** | 5,818.0 usft | **Ground Level:** | 5,807.0 usft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2010 | 6/26/2014 | 10.96 | 65.72 | 51,966 |

**Design** Actual

**Audit Notes:**

| | | | | | |
|---|---|---|---|---|---|
| **Version:** | 1.0 | **Phase:** | ACTUAL | **Tie On Depth:** | 0.0 |

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|---|---|---|---|---|
| | 0.0 | 0.0 | 0.0 | 224.83 |

**Survey Program** **Date** 7/20/2014

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 348.0 | 6,421.0 | Survey #1 (Wellbore #1) | MWD | MWD - Standard |

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well K-6-9-16 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Site:** | SECTION 5 T9, R16 | **MD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Well:** | K-6-9-16 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 5000.1 Single User Db |

**Survey**

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | DLeg (°/100usft) | Build (°/100usft) | Turn (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 348.0 | 1.76 | 35.39 | 347.9 | -5.3 | 4.4 | 3.1 | 0.51 | 0.51 | 0.00 |
| 379.0 | 1.85 | 39.17 | 378.9 | -6.2 | 5.1 | 3.7 | 0.48 | 0.29 | 12.19 |
| 410.0 | 1.19 | 29.42 | 409.9 | -7.0 | 5.8 | 4.2 | 2.28 | -2.13 | -31.45 |
| 441.0 | 0.31 | 317.17 | 440.9 | -7.4 | 6.1 | 4.3 | 3.66 | -2.84 | -233.06 |
| 471.0 | 0.88 | 241.50 | 470.9 | -7.1 | 6.1 | 4.0 | 2.86 | 1.90 | -252.23 |
| 502.0 | 1.98 | 228.70 | 501.9 | -6.4 | 5.6 | 3.4 | 3.67 | 3.55 | -41.29 |
| 533.0 | 2.29 | 227.61 | 532.9 | -5.2 | 4.9 | 2.5 | 1.01 | 1.00 | -3.52 |
| 564.0 | 2.42 | 222.86 | 563.9 | -4.0 | 4.0 | 1.6 | 0.76 | 0.42 | -15.32 |
| 594.0 | 2.33 | 219.88 | 593.8 | -2.7 | 3.0 | 0.8 | 0.51 | -0.30 | -9.93 |
| 625.0 | 2.11 | 221.68 | 624.8 | -1.5 | 2.1 | 0.0 | 0.74 | -0.71 | 5.81 |
| 656.0 | 2.07 | 221.50 | 655.8 | -0.4 | 1.3 | -0.7 | 0.13 | -0.13 | -0.58 |
| 687.0 | 2.11 | 221.90 | 686.8 | 0.7 | 0.4 | -1.5 | 0.14 | 0.13 | 1.29 |
| 717.0 | 2.15 | 218.69 | 716.7 | 1.9 | -0.4 | -2.2 | 0.42 | 0.13 | -10.70 |
| 748.0 | 2.68 | 223.00 | 747.7 | 3.2 | -1.4 | -3.1 | 1.81 | 1.71 | 13.90 |
| 779.0 | 3.21 | 225.46 | 778.7 | 4.7 | -2.5 | -4.2 | 1.76 | 1.71 | 7.94 |
| 810.0 | 3.38 | 231.43 | 809.6 | 6.5 | -3.7 | -5.5 | 1.23 | 0.55 | 19.26 |
| 841.0 | 3.91 | 231.30 | 840.6 | 8.5 | -5.0 | -7.0 | 1.71 | 1.71 | -0.42 |
| 871.0 | 4.57 | 230.03 | 870.5 | 10.7 | -6.4 | -8.8 | 2.22 | 2.20 | -4.23 |
| 902.0 | 4.88 | 229.81 | 901.4 | 13.2 | -8.0 | -10.7 | 1.00 | 1.00 | -0.71 |
| 933.0 | 5.01 | 228.01 | 932.3 | 15.9 | -9.8 | -12.7 | 0.65 | 0.42 | -5.81 |
| 964.0 | 5.01 | 229.81 | 963.1 | 18.6 | -11.5 | -14.8 | 0.51 | 0.00 | 5.81 |
| 994.0 | 5.45 | 229.98 | 993.0 | 21.3 | -13.3 | -16.9 | 1.47 | 1.47 | 0.57 |
| 1,025.0 | 6.11 | 232.58 | 1,023.9 | 24.4 | -15.3 | -19.3 | 2.29 | 2.13 | 8.39 |
| 1,069.0 | 6.55 | 228.40 | 1,067.6 | 29.2 | -18.3 | -23.0 | 1.45 | 1.00 | -9.50 |
| 1,113.0 | 7.21 | 226.03 | 1,111.3 | 34.5 | -21.9 | -26.9 | 1.63 | 1.50 | -5.39 |
| 1,157.0 | 7.25 | 224.75 | 1,154.9 | 40.0 | -25.8 | -30.8 | 0.38 | 0.09 | -2.91 |

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well K-6-9-16 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Site:** | SECTION 5 T9, R16 | **MD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Well:** | K-6-9-16 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 5000.1 Single User Db |

**Survey**

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | DLeg (°/100usft) | Build (°/100usft) | Turn (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 1,200.0 | 7.47 | 223.35 | 1,197.6 | 45.6 | -29.8 | -34.7 | 0.66 | 0.51 | -3.26 |
| 1,244.0 | 7.60 | 223.52 | 1,241.2 | 51.3 | -34.0 | -38.6 | 0.30 | 0.30 | 0.39 |
| 1,288.0 | 8.44 | 224.05 | 1,284.8 | 57.5 | -38.4 | -42.9 | 1.92 | 1.91 | 1.20 |
| 1,332.0 | 9.05 | 223.66 | 1,328.2 | 64.1 | -43.2 | -47.5 | 1.39 | 1.39 | -0.89 |
| 1,376.0 | 9.80 | 222.60 | 1,371.7 | 71.3 | -48.5 | -52.4 | 1.75 | 1.70 | -2.41 |
| 1,419.0 | 10.20 | 222.78 | 1,414.0 | 78.8 | -54.0 | -57.5 | 0.93 | 0.93 | 0.42 |
| 1,463.0 | 10.46 | 222.03 | 1,457.3 | 86.7 | -59.8 | -62.8 | 0.67 | 0.59 | -1.70 |
| 1,507.0 | 11.03 | 224.09 | 1,500.5 | 94.9 | -65.8 | -68.4 | 1.56 | 1.30 | 4.68 |
| 1,551.0 | 11.73 | 225.24 | 1,543.7 | 103.6 | -72.0 | -74.5 | 1.67 | 1.59 | 2.61 |
| 1,595.0 | 11.91 | 225.28 | 1,586.7 | 112.6 | -78.3 | -80.9 | 0.41 | 0.41 | 0.09 |
| 1,638.0 | 12.30 | 223.13 | 1,628.8 | 121.6 | -84.8 | -87.2 | 1.39 | 0.91 | -5.00 |
| 1,682.0 | 12.39 | 223.52 | 1,671.7 | 131.0 | -91.6 | -93.7 | 0.28 | 0.20 | 0.89 |
| 1,770.0 | 12.35 | 226.60 | 1,757.7 | 149.9 | -104.9 | -107.0 | 0.75 | -0.05 | 3.50 |
| 1,814.0 | 11.69 | 224.58 | 1,800.7 | 159.0 | -111.3 | -113.6 | 1.78 | -1.50 | -4.59 |
| 1,857.0 | 11.25 | 224.80 | 1,842.9 | 167.6 | -117.4 | -119.6 | 1.03 | -1.02 | 0.51 |
| 1,901.0 | 11.60 | 224.23 | 1,886.0 | 176.3 | -123.6 | -125.7 | 0.84 | 0.80 | -1.30 |
| 1,945.0 | 11.95 | 224.80 | 1,929.1 | 185.3 | -130.0 | -132.0 | 0.84 | 0.80 | 1.30 |
| 1,989.0 | 12.00 | 224.62 | 1,972.1 | 194.4 | -136.5 | -138.4 | 0.14 | 0.11 | -0.41 |
| 2,033.0 | 11.78 | 222.86 | 2,015.2 | 203.4 | -143.1 | -144.7 | 0.96 | -0.50 | -4.00 |
| 2,077.0 | 12.66 | 221.59 | 2,058.2 | 212.8 | -150.0 | -150.9 | 2.09 | 2.00 | -2.89 |
| 2,120.0 | 13.12 | 222.34 | 2,100.1 | 222.3 | -157.1 | -157.3 | 1.14 | 1.07 | 1.74 |
| 2,164.0 | 12.66 | 221.77 | 2,143.0 | 232.1 | -164.4 | -163.9 | 1.08 | -1.05 | -1.30 |
| 2,208.0 | 12.48 | 223.48 | 2,185.9 | 241.7 | -171.4 | -170.4 | 0.94 | -0.41 | 3.89 |
| 2,252.0 | 12.79 | 222.03 | 2,228.9 | 251.3 | -178.5 | -176.9 | 1.01 | 0.70 | -3.30 |
| 2,296.0 | 13.05 | 223.61 | 2,271.8 | 261.2 | -185.7 | -183.6 | 1.00 | 0.59 | 3.59 |
| 2,339.0 | 13.14 | 226.12 | 2,313.6 | 270.9 | -192.6 | -190.5 | 1.34 | 0.21 | 5.84 |
| 2,383.0 | 13.27 | 229.24 | 2,356.5 | 280.9 | -199.4 | -197.9 | 1.65 | 0.30 | 7.09 |

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well K-6-9-16 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Site:** | SECTION 5 T9, R16 | **MD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Well:** | K-6-9-16 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 5000.1 Single User Db |

**Survey**

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | DLeg (°/100usft) | Build (°/100usft) | Turn (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 2,427.0 | 13.32 | 231.17 | 2,399.3 | 291.0 | -205.8 | -205.7 | 1.02 | 0.11 | 4.39 |
| 2,471.0 | 12.61 | 228.58 | 2,442.2 | 300.8 | -212.2 | -213.2 | 2.08 | -1.61 | -5.89 |
| 2,515.0 | 13.05 | 227.00 | 2,485.1 | 310.6 | -218.8 | -220.5 | 1.28 | 1.00 | -3.59 |
| 2,559.0 | 13.10 | 228.84 | 2,527.9 | 320.5 | -225.4 | -227.9 | 0.95 | 0.11 | 4.18 |
| 2,602.0 | 12.35 | 227.48 | 2,569.9 | 330.0 | -231.8 | -234.9 | 1.88 | -1.74 | -3.16 |
| 2,646.0 | 12.35 | 226.73 | 2,612.9 | 339.4 | -238.2 | -241.8 | 0.36 | 0.00 | -1.70 |
| 2,690.0 | 12.35 | 224.80 | 2,655.8 | 348.8 | -244.7 | -248.6 | 0.94 | 0.00 | -4.39 |
| 2,734.0 | 12.48 | 224.14 | 2,698.8 | 358.2 | -251.5 | -255.2 | 0.44 | 0.30 | -1.50 |
| 2,778.0 | 12.89 | 224.25 | 2,741.7 | 367.9 | -258.4 | -261.9 | 0.93 | 0.93 | 0.25 |
| 2,821.0 | 13.10 | 223.77 | 2,783.6 | 377.6 | -265.4 | -268.6 | 0.55 | 0.49 | -1.12 |
| 2,865.0 | 12.79 | 219.83 | 2,826.5 | 387.4 | -272.7 | -275.2 | 2.13 | -0.70 | -8.95 |
| 2,909.0 | 13.40 | 221.28 | 2,869.4 | 397.4 | -280.3 | -281.7 | 1.57 | 1.39 | 3.30 |
| 2,953.0 | 14.15 | 222.56 | 2,912.1 | 407.8 | -288.1 | -288.7 | 1.84 | 1.70 | 2.91 |
| 2,997.0 | 13.54 | 222.56 | 2,954.8 | 418.3 | -295.8 | -295.8 | 1.39 | -1.39 | 0.00 |
| 3,041.0 | 12.57 | 219.83 | 2,997.7 | 428.3 | -303.3 | -302.4 | 2.61 | -2.20 | -6.20 |
| 3,084.0 | 12.84 | 219.00 | 3,039.6 | 437.7 | -310.6 | -308.4 | 0.76 | 0.63 | -1.93 |
| 3,128.0 | 13.18 | 217.81 | 3,082.5 | 447.5 | -318.4 | -314.5 | 0.98 | 0.77 | -2.70 |
| 3,172.0 | 13.67 | 217.37 | 3,125.3 | 457.6 | -326.5 | -320.7 | 1.14 | 1.11 | -1.00 |
| 3,216.0 | 14.02 | 218.95 | 3,168.0 | 468.1 | -334.7 | -327.3 | 1.17 | 0.80 | 3.59 |
| 3,260.0 | 12.61 | 215.70 | 3,210.8 | 478.2 | -342.8 | -333.4 | 3.63 | -3.20 | -7.39 |
| 3,303.0 | 12.04 | 213.06 | 3,252.9 | 487.2 | -350.3 | -338.6 | 1.86 | -1.33 | -6.14 |
| 3,347.0 | 12.52 | 214.60 | 3,295.9 | 496.4 | -358.1 | -343.8 | 1.32 | 1.09 | 3.50 |
| 3,391.0 | 13.01 | 215.66 | 3,338.8 | 505.9 | -366.1 | -349.4 | 1.23 | 1.11 | 2.41 |
| 3,435.0 | 12.70 | 217.06 | 3,381.7 | 515.6 | -374.0 | -355.2 | 1.00 | -0.70 | 3.18 |
| 3,479.0 | 12.61 | 218.38 | 3,424.6 | 525.2 | -381.6 | -361.1 | 0.69 | -0.20 | 3.00 |
| 3,523.0 | 12.52 | 218.65 | 3,467.5 | 534.7 | -389.1 | -367.1 | 0.24 | -0.20 | 0.61 |
| 3,566.0 | 12.79 | 218.78 | 3,509.5 | 544.1 | -396.4 | -373.0 | 0.63 | 0.63 | 0.30 |

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well K-6-9-16 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Site:** | SECTION 5 T9, R16 | **MD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Well:** | K-6-9-16 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 5000.1 Single User Db |

**Survey**

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | DLeg (°/100usft) | Build (°/100usft) | Turn (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 3,610.0 | 12.74 | 219.30 | 3,552.4 | 553.7 | -404.0 | -379.1 | 0.28 | -0.11 | 1.18 |
| 3,654.0 | 12.39 | 221.37 | 3,595.4 | 563.3 | -411.3 | -385.3 | 1.30 | -0.80 | 4.70 |
| 3,698.0 | 12.44 | 222.51 | 3,638.3 | 572.7 | -418.3 | -391.6 | 0.57 | 0.11 | 2.59 |
| 3,742.0 | 12.52 | 224.05 | 3,681.3 | 582.2 | -425.2 | -398.1 | 0.78 | 0.18 | 3.50 |
| 3,785.0 | 12.61 | 224.05 | 3,723.3 | 591.6 | -431.9 | -404.6 | 0.21 | 0.21 | 0.00 |
| 3,829.0 | 12.17 | 224.71 | 3,766.2 | 601.0 | -438.7 | -411.2 | 1.05 | -1.00 | 1.50 |
| 3,873.0 | 12.17 | 225.63 | 3,809.2 | 610.3 | -445.2 | -417.8 | 0.44 | 0.00 | 2.09 |
| 3,917.0 | 12.08 | 228.62 | 3,852.3 | 619.5 | -451.5 | -424.6 | 1.44 | -0.20 | 6.80 |
| 3,961.0 | 12.13 | 228.49 | 3,895.3 | 628.7 | -457.6 | -431.5 | 0.13 | 0.11 | -0.30 |
| 4,004.0 | 13.10 | 230.99 | 3,937.2 | 638.1 | -463.7 | -438.6 | 2.59 | 2.26 | 5.81 |
| 4,048.0 | 13.49 | 230.73 | 3,980.1 | 648.2 | -470.1 | -446.5 | 0.90 | 0.89 | -0.59 |
| 4,092.0 | 13.75 | 232.44 | 4,022.8 | 658.4 | -476.5 | -454.6 | 1.09 | 0.59 | 3.89 |
| 4,136.0 | 13.80 | 232.31 | 4,065.6 | 668.8 | -482.9 | -462.9 | 0.13 | 0.11 | -0.30 |
| 4,180.0 | 13.80 | 232.09 | 4,108.3 | 679.2 | -489.3 | -471.2 | 0.12 | 0.00 | -0.50 |
| 4,224.0 | 13.80 | 230.99 | 4,151.0 | 689.7 | -495.9 | -479.4 | 0.60 | 0.00 | -2.50 |
| 4,268.0 | 13.75 | 229.28 | 4,193.8 | 700.1 | -502.6 | -487.5 | 0.93 | -0.11 | -3.89 |
| 4,312.0 | 13.18 | 224.40 | 4,236.5 | 710.3 | -509.6 | -494.9 | 2.89 | -1.30 | -11.09 |
| 4,355.0 | 12.92 | 220.80 | 4,278.4 | 720.0 | -516.7 | -501.5 | 1.98 | -0.60 | -8.37 |
| 4,399.0 | 12.52 | 215.61 | 4,321.4 | 729.6 | -524.3 | -507.5 | 2.75 | -0.91 | -11.80 |
| 4,443.0 | 12.39 | 218.38 | 4,364.3 | 739.0 | -531.9 | -513.2 | 1.39 | -0.30 | 6.30 |
| 4,487.0 | 12.39 | 219.57 | 4,407.3 | 748.4 | -539.2 | -519.1 | 0.58 | 0.00 | 2.70 |
| 4,531.0 | 11.29 | 217.77 | 4,450.4 | 757.4 | -546.3 | -524.8 | 2.64 | -2.50 | -4.09 |
| 4,575.0 | 11.14 | 218.28 | 4,493.5 | 765.9 | -553.0 | -530.1 | 0.41 | -0.34 | 1.16 |
| 4,618.0 | 10.99 | 222.21 | 4,535.7 | 774.1 | -559.3 | -535.4 | 1.79 | -0.35 | 9.14 |
| 4,662.0 | 11.07 | 225.98 | 4,578.9 | 782.5 | -565.4 | -541.2 | 1.65 | 0.18 | 8.57 |
| 4,705.0 | 10.94 | 228.05 | 4,621.1 | 790.7 | -571.0 | -547.2 | 0.97 | -0.30 | 4.81 |
| 4,749.0 | 10.20 | 225.50 | 4,664.4 | 798.8 | -576.5 | -553.1 | 1.99 | -1.68 | -5.80 |

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well K-6-9-16 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Site:** | SECTION 5 T9, R16 | **MD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Well:** | K-6-9-16 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 5000.1 Single User Db |

**Survey**

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | DLeg (°/100usft) | Build (°/100usft) | Turn (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 4,793.0 | 9.93 | 225.24 | 4,707.7 | 806.5 | -581.9 | -558.6 | 0.62 | -0.61 | -0.59 |
| 4,837.0 | 10.20 | 224.36 | 4,751.0 | 814.2 | -587.3 | -564.0 | 0.71 | 0.61 | -2.00 |
| 4,881.0 | 10.37 | 225.98 | 4,794.3 | 822.0 | -592.9 | -569.6 | 0.76 | 0.39 | 3.68 |
| 4,925.0 | 10.72 | 226.51 | 4,837.6 | 830.1 | -598.4 | -575.4 | 0.83 | 0.80 | 1.20 |
| 4,968.0 | 10.55 | 226.20 | 4,879.8 | 838.0 | -603.9 | -581.2 | 0.42 | -0.40 | -0.72 |
| 5,012.0 | 10.90 | 227.57 | 4,923.1 | 846.2 | -609.5 | -587.1 | 0.98 | 0.80 | 3.11 |
| 5,056.0 | 11.07 | 226.56 | 4,966.3 | 854.6 | -615.2 | -593.3 | 0.58 | 0.39 | -2.30 |
| 5,100.0 | 11.12 | 229.59 | 5,009.4 | 863.0 | -620.9 | -599.6 | 1.33 | 0.11 | 6.89 |
| 5,144.0 | 11.07 | 231.96 | 5,052.6 | 871.4 | -626.2 | -606.1 | 1.04 | -0.11 | 5.39 |
| 5,187.0 | 11.36 | 231.45 | 5,094.8 | 879.8 | -631.4 | -612.7 | 0.71 | 0.67 | -1.19 |
| 5,231.0 | 11.12 | 227.79 | 5,137.9 | 888.3 | -637.0 | -619.2 | 1.71 | -0.55 | -8.32 |
| 5,275.0 | 11.56 | 228.71 | 5,181.1 | 896.9 | -642.7 | -625.7 | 1.08 | 1.00 | 2.09 |
| 5,319.0 | 12.13 | 226.91 | 5,224.2 | 905.9 | -648.8 | -632.4 | 1.54 | 1.30 | -4.09 |
| 5,363.0 | 12.52 | 227.74 | 5,267.1 | 915.3 | -655.2 | -639.3 | 0.97 | 0.89 | 1.89 |
| 5,407.0 | 12.92 | 229.68 | 5,310.1 | 925.0 | -661.6 | -646.5 | 1.33 | 0.91 | 4.41 |
| 5,450.0 | 13.45 | 230.82 | 5,351.9 | 934.8 | -667.8 | -654.1 | 1.37 | 1.23 | 2.65 |
| 5,494.0 | 13.67 | 230.77 | 5,394.7 | 945.0 | -674.3 | -662.1 | 0.50 | 0.50 | -0.11 |
| 5,538.0 | 12.96 | 230.12 | 5,437.5 | 955.1 | -680.8 | -669.9 | 1.65 | -1.61 | -1.48 |
| 5,582.0 | 12.66 | 226.82 | 5,480.4 | 964.8 | -687.3 | -677.2 | 1.80 | -0.68 | -7.50 |
| 5,626.0 | 13.05 | 225.50 | 5,523.3 | 974.6 | -694.0 | -684.3 | 1.11 | 0.89 | -3.00 |
| 5,669.0 | 13.35 | 222.24 | 5,565.2 | 984.4 | -701.1 | -691.1 | 1.87 | 0.70 | -7.58 |
| 5,713.0 | 12.64 | 222.99 | 5,608.1 | 994.3 | -708.4 | -697.8 | 1.66 | -1.61 | 1.70 |
| 5,757.0 | 12.04 | 225.98 | 5,651.0 | 1,003.7 | -715.1 | -704.3 | 1.99 | -1.36 | 6.80 |
| 5,801.0 | 12.26 | 226.16 | 5,694.1 | 1,013.0 | -721.5 | -711.0 | 0.51 | 0.50 | 0.41 |
| 5,845.0 | 12.48 | 227.21 | 5,737.0 | 1,022.4 | -728.0 | -717.9 | 0.72 | 0.50 | 2.39 |
| 5,888.0 | 12.26 | 229.90 | 5,779.0 | 1,031.6 | -734.1 | -724.8 | 1.43 | -0.51 | 6.26 |
| 5,932.0 | 11.60 | 229.68 | 5,822.1 | 1,040.7 | -740.0 | -731.7 | 1.50 | -1.50 | -0.50 |

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well K-6-9-16 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Site:** | SECTION 5 T9, R16 | **MD Reference:** | K-6-9-16 @ 5818.0usft (SS # 2) |
| **Well:** | K-6-9-16 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 5000.1 Single User Db |

**Survey**

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | DLeg (°/100usft) | Build (°/100usft) | Turn (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,976.0 | 10.94 | 227.21 | 5,865.2 | 1,049.2 | -745.7 | -738.2 | 1.86 | -1.50 | -5.61 |
| 6,020.0 | 10.28 | 226.95 | 5,908.5 | 1,057.3 | -751.2 | -744.1 | 1.50 | -1.50 | -0.59 |
| 6,064.0 | 9.57 | 226.70 | 5,951.8 | 1,064.9 | -756.4 | -749.6 | 1.62 | -1.61 | -0.57 |
| 6,108.0 | 9.18 | 226.20 | 5,995.2 | 1,072.1 | -761.3 | -754.8 | 0.91 | -0.89 | -1.14 |
| 6,151.0 | 8.96 | 227.57 | 6,037.7 | 1,078.8 | -765.9 | -759.8 | 0.72 | -0.51 | 3.19 |
| 6,195.0 | 8.17 | 227.04 | 6,081.2 | 1,085.4 | -770.4 | -764.6 | 1.80 | -1.80 | -1.20 |
| 6,239.0 | 7.91 | 228.23 | 6,124.8 | 1,091.5 | -774.5 | -769.1 | 0.70 | -0.59 | 2.70 |
| 6,283.0 | 7.47 | 225.24 | 6,168.4 | 1,097.4 | -778.6 | -773.4 | 1.35 | -1.00 | -6.80 |
| 6,327.0 | 7.29 | 224.97 | 6,212.0 | 1,103.1 | -782.6 | -777.4 | 0.42 | -0.41 | -0.61 |
| 6,361.0 | 6.72 | 226.56 | 6,245.8 | 1,107.2 | -785.4 | -780.4 | 1.77 | -1.68 | 4.68 |
| 6,421.0 | 6.72 | 226.56 | 6,305.3 | 1,114.2 | -790.3 | -785.5 | 0.00 | 0.00 | 0.00 |

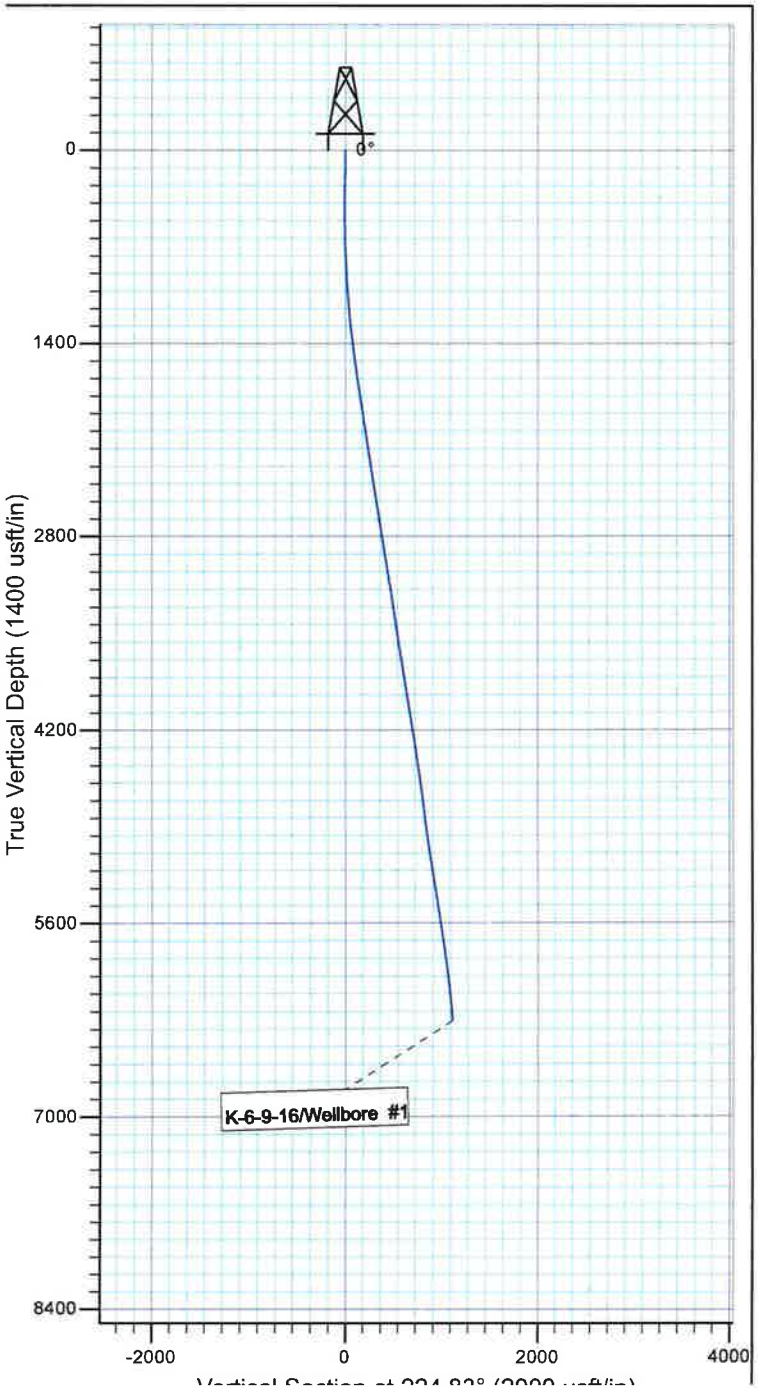
Checked By: _____ Approved By: _____ Date: _____

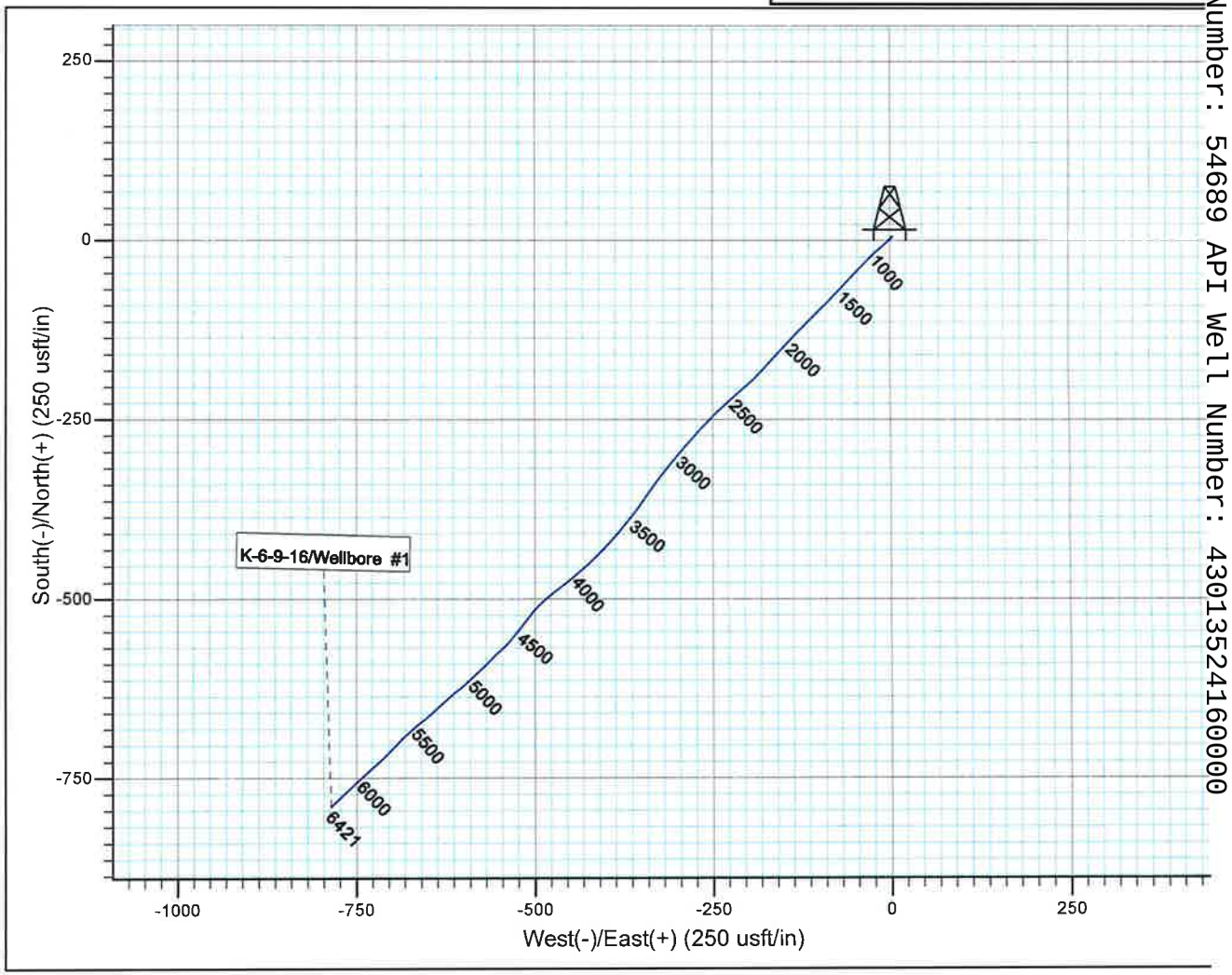
NEWFIELD

Project: USGS Myton SW (UT)
Site: SECTION 5 T9, R16
Well: K-6-9-16
Wellbore: Wellbore #1
Design: Actual

Azimuths to True North
Magnetic North: 10.96°

Magnetic Field
Strength: 51965.5snT
Dip Angle: 65.72°
Date: 6/26/2014
Model: IGRF2010




PATHFINDER DIRECTIONAL

Design: Actual (K-6-9-16/Wellbore #1)

Created By: Matthew Linton Date: 20:49, July 20 20

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA

Sundry Number: 54689 API Well Number: 43013524160000

NEWFIELD

# Summary Rig Activity

**Well Name: GMBU K-6-9-16**

| Job Category | Job Start Date | Job End Date |
|---|---|---|
| | | |

## Daily Operations

| Report Start Date | Report End Date | 24hr Activity Summary |
|---|---|---|
| 7/29/2014 | 7/30/2014 | CBL/test/perf stg 1 |

| Start Time | End Time | Comment |
|---|---|---|
| 00:00 | 08:30 | SDFN |
| 08:30 | 10:00 | RIH w/CBL tools. Run log from 6325' to surface under 0 psi. Estimated cement top @ surface. SJ @ 3818-29'. |
| 10:00 | 11:30 | PSI test csg/BOP/frac valve-good |
| 11:30 | 12:30 | RIH w/ 3 1/8" slick guns (16g, 0.34 EH, 21.00 pen) , perforate stg 1 @ CP5 6145-49' w/3spf for total of 12 shots. Move equipment back to J-6. |
| 12:30 | 00:00 | SDFN Well ready to frac |

| Report Start Date | Report End Date | 24hr Activity Summary |
|---|---|---|
| 7/31/2014 | 8/1/2014 | frac 4 of 5 stgs |

| Start Time | End Time | Comment |
|---|---|---|
| 00:00 | 05:30 | SDFN |
| 05:30 | 06:30 | Start equipment, run wtr tests |
| 06:30 | 06:45 | Location safety mtg |
| 06:45 | 07:00 | PSI test all frac iron & equipment |
| 07:00 | 07:30 | Stage #1, CP5 sands.<br>249 psi on well. Frac CP5 sds w/44,835#s of 20/40 White sand in 253 bbls 17# Crosslinked fluid. Broke @ 3691 psi @ 2.6 BPM. ISIP 1872 psi, FG=.74, Treated w/ ave pressure of 2577 psi @ ave rate of 24 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISDP 2203 psi. FG=.79 5 min SIP 1924 psi, 10 min SIP 1882 psi, 15 min SIP 1860 psi. Leave pressure on well. 492 total BWTR. |
| 07:30 | 09:15 | RU Perforators WLT, crane & lubricator. Pressure test lubricator to 4000 psi w/Nabors blender. RIH w/ Weatherford 5-1/2" 5K total composite flow through frac plug, perf guns. Set plug @ 5640'. Perforate LODC @ 5660-62', 5648-50', 5595-97', 5585-86', 5575-76', 5555-56', 5547-48', 5535-36', 5520-22', 5477-79', 5457-59', 5452-53', 5440-42', 5425-26', 5417-18', 5411-12' w/3 1/8" slick guns (16g, 0.34 EH, 21.00 pen) w/2 spf for total of 44 shots. Had to make 2 runs to fire all guns. |
| 09:15 | 11:00 | Stage #2, LODC sands.<br>1538 psi on well. LODC sds w/299,078#s of 20/40 White & 32,860#s 20/40 SLC sand in 1795 bbls 17# Crosslinked fluid. Broke @ 1757 psi @ 4.5 BPM. ISIP 1510 psi, FG=.71, Treated w/ ave pressure of 2897 psi @ ave rate of 32.6 BPM. PUMPED 80 Bioballs & 5 bbls 15% HCL. Pumped 504 gals of 15% HCL in flush for Stage #3. ISDP 2259 psi. FG=.85, 5 min SIP 2084 psi, 10 min SIP 1992 psi, 15 min SIP 1925 psi. Leave pressure on well. 2546 total BWTR. |
| 11:00 | 11:45 | RU Perforators WLT, crane & lubricator. Pressure test lubricator to 4000 psi w/Nabors blender. RIH w/ Weatherford 5-1/2" 5K solid plug, perf guns. Set plug @ 5370'. Perforate A1 sands @ 5317-21', 5293-96' w/3 1/8" slick guns (16g, 0.34 EH, 21.00 pen) w/3 spf for total of 21 shots. |
| 11:45 | 12:45 | Viscosity on CAS reading 4 after pumping acid. Shutdown to drain CAS and re-gel. |

NEWFIELD

# Summary Rig Activity

**Well Name: GMBU K-6-9-16**

| Start Time | End Time | Comment |
|---|---|---|
| 12:45 | 13:15 | Stage #3, A1 sands.<br>1486 psi on well. Frac A1 sds w/60,330#s of 20/40 White sand in 326 bbls Crosslinked fluid. Broke @ 3495 psi @ 2.5 BPM. Treated w/ ave pressure of 3263 psi @ ave rate of 35.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISDP 3214 psi. FG=1.04, 5 min SIP 2347 psi, 10 min SIP 2212 psi, 15 min SIP 2052 psi. Leave pressure on well. 601 total BWTR |
| 13:15 | 14:00 | RU Perforators WLT, crane & lubricator. Pressure test lubricator to 4000 psi w/Nabors blender. RIH w/ Weatherford 5-1/2" 5K total composite flow through frac plug, perf guns. Set plug @ 5150'. Perforate C & D2 sands @ 5070-72', 5058-60', 4972-73', 4953-54' w/3 1/8"slick guns (16g, 0.34 EH, 21.00 pen) w/3 spf for total of 18 shots. |
| 14:00 | 14:15 | Stage #4, C & D2 sands.<br>1837 psi on well. Frac C & D2 sds w/50,741#s of 20/40 White sand in 283 bbls 17# Crosslinked fluid. Broke @ 1940 psi @ 2.0 BPM. Treated w/ ave pressure of 3141psi @ ave rate of 32.8 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISDP 2367 psi. FG=.91, 5 min SIP 1976 psi, 10 min SIP 1849 psi, 15 min SIP 1808 psi. Leave pressure on well. 557 total BWTR |
| 14:15 | 15:00 | RU Perforators WLT, crane & lubricator. Pressure test lubricator to 4000 psi w/Nabors blender. RIH w/ Weatherford 5-1/2" 5K total composite flow through frac plug, perf guns. Set plug @ 4530'. Perforate GB6 & GB4 sands @ 4453-57', 4342-44' w/3 1/8"slick guns (16g, 0.34 EH, 21.00 pen) w/3 spf for total of 18 shots. |
| 15:00 | 00:00 | SDFN - missing 1 load of sand (40,000#). Will be delivered overnight. |

| Report Start Date | Report End Date | 24hr Activity Summary |
|---|---|---|
| 8/1/2014 | 8/2/2014 | frac remaining stg/flowback |

| Start Time | End Time | Comment |
|---|---|---|
| 00:00 | 06:00 | SDFN |
| 06:00 | 06:30 | Start all equipment |
| 06:30 | 06:45 | Location safety mtg |
| 06:45 | 07:00 | PSI test all frac equipment & iron |
| 07:00 | 07:30 | Stage #5, GB6 & GB4 sands.<br>1392 psi on well. Frac GB6 & GB4 sds w/50,684#s of 20/40 White sand in 277 bbls 17# Delta 140 fluid. Broke @ 2520 psi @ 3.6 BPM. Treated w/ ave pressure of 2978 psi @ ave rate of 32.9 BPM. ISDP 2450 psi. FG= .99, 5 min SIP 1862 psi, 10 min SIP 1750 psi, 15 min SIP 1707 psi. 498 total BWTR |
| 07:30 | 10:30 | Flow to pit @ 1bpm, returned approx 180 bbls. Well turned to oil. |
| 10:30 | 00:00 | SDFN |

| Report Start Date | Report End Date | 24hr Activity Summary |
|---|---|---|
| 8/4/2014 | 8/5/2014 | Set KP |

| Start Time | End Time | Comment |
|---|---|---|
| 00:00 | 08:00 | SDFN |
| 08:00 | 10:00 | RU Extreme Wireline, bleedoil to pit. RIH & set KP @ 3270'. Tagged sand @ 3350', pulled up and set plug. Bleed psi off well to pit. RD wireline. |

NEWFIELD

# Summary Rig Activity

**Well Name: GMBU K-6-9-16**

| Start Time | End Time | Comment |
|---|---|---|
| 10:00 | 00:00 | SDFN |

| Report Start Date | Report End Date | 24hr Activity Summary |
|---|---|---|
| 8/6/2014 | 8/7/2014 | NU/test pipe rams |

| Start Time | End Time | Comment |
|---|---|---|
| 00:00 | 11:00 | SDFN |
| 11:00 | 12:00 | NU pipe rams |
| 12:00 | 13:30 | RU B&C Quicktest. PSI test pipe rams. |
| 13:30 | 00:00 | SDFN |

| Report Start Date | Report End Date | 24hr Activity Summary |
|---|---|---|
| 8/7/2014 | 8/8/2014 | MIRUSU/drillout 3 plugs |

| Start Time | End Time | Comment |
|---|---|---|
| 00:00 | 06:00 | SDFN |
| 06:00 | 07:00 | Crew travel & safety mtg |
| 07:00 | 10:30 | Spot pipe racks, unload tbg to racks, spot in rig & RU. change over for tbg, RU floor, prep & tally tbg |
| 10:30 | 13:15 | MU 4 3/4" bit & sub. PU 99 jts 2 7/8" & tag KP @ 3240' (no fill). |
| 13:15 | 15:00 | Spot in/RU RBS swvl. Run hadline to well, psi test lines, wait for wtr truck to finish draining oil for a transfre out of flat tank |
| 15:00 | 15:45 | Break circ., drill KP @ 3240' (25min). |
| 15:45 | 17:30 | RD swvl, PU 32 jts, tbg started flowing, stabbed TIW valve, pumped 30 bbls dwn tbg to kill, finish PU 6 more jts & tag KP @ 4530' (no fill). drill plug. |
| 17:30 | 18:45 | RD swvl, PU 17 jts & tag fill @ 5100' (50'fill). RU swvl, break circ., clean fill to plug @ 5150', drill plug (25min). |
| 18:45 | 19:30 | Circ well w/80 bbls, clean returns, SWIFN, EOT @ 5170' (200' from next plug). still have 2 more plugs & c/o to pbtd in am. |
| 19:30 | 20:30 | Crew travel |
| 20:30 | 00:00 | SDFN |

| Report Start Date | Report End Date | 24hr Activity Summary |
|---|---|---|
| 8/8/2014 | 8/9/2014 | finish d/o, c/o to PBTD, flow to production |

| Start Time | End Time | Comment |
|---|---|---|
| 00:00 | 06:00 | SDFN |
| 06:00 | 07:00 | Crew travel & safety mtg |
| 07:00 | 08:00 | SICP 900#, SITP 900#, bleed dwn csg & grease rig |
| 08:00 | 09:30 | Pump 40 bbls dwn tbg to kill, PU 4 jts & tag fill @ 5316' (54' fill), break circ., clean fill to solid plugs. Drill plug (25min). |

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# Summary Rig Activity

**Well Name: GMBU K-6-9-16**

| Start Time | End Time | Comment |
|---|---|---|
| 09:30 | 10:45 | PU 8 jts using the swvl, tag fill @ 5650' (90' fill), break circ., clean fill to plug @ 5740', drill plug (30min). |
| 10:45 | 12:45 | RD swvl, PU 15 jts, tag fill @ 6260' (95' fill). RU swvl, break circ., clean fill to PBTD @ 6355'. |
| 12:45 | 15:00 | RD swvl, circ well clean w/240 bbls of 4% to kill well. |
| 15:00 | 16:45 | LD 3 jts, POOH w/36 jts tbg. Tbg & csg started flowing, stab valve pump on well & called pumpers. Going to let well flow up csg over the weekend. |
| 16:45 | 17:00 | SWIFN, EOT @ 5150', left well flowing up csg to production tanks @ 6% choke. |
| 17:00 | 18:00 | Crew travel |
| 18:00 | 00:00 | SDFN |

| Report Start Date | Report End Date | 24hr Activity Summary |
|---|---|---|
| 8/11/2014 | 8/12/2014 | RT/land tbg, RIh w/rods & pump |

| Start Time | End Time | Comment |
|---|---|---|
| 00:00 | 06:00 | SDFN |
| 06:00 | 07:00 | Crew travel & safety mtg |
| 07:00 | 09:15 | SICP 350#, SITP 350#, csg flowed over the weekend. Still flowing, open choke, full open, let bleed dwn 30 min, pump dwn tbg, up csg w/300 bbls 4% KCL & killed well. |
| 09:15 | 10:30 | POOH w/154 jts 3 7/8" tbg & break off bit & sub |
| 10:30 | 12:00 | MU BHA, PV, 2 jts, Desander, 4' pup, 1 jt, PSN, 1 jt, TAC, TIH w/186 jts 2 7/8" J55 tbg. Csg flowing oil. |
| 12:00 | 13:45 | Pump dwn tbg, up csg w/280 bbls of 5.5% KCL and kill well |
| 13:45 | 15:15 | Set TAC, RD workfloor, ND BOPs, land well on hanger w/18K tension, NU WH, change over for rods, tie back to double line |
| 15:15 | 18:30 | PU NOV pump, 2.5x1.75x24' & prime pump (good). PU 28-7/8" 8 pers, 137- 3/4" 4 pers, 42-7/8" 4 pers, 38-7/8" 8 pers, space well w/8', 4' and 2' pony. PU polish rod. Unit not rolling over. Mechanics on location to fix. |
| 18:30 | 19:30 | Crew travel |
| 19:30 | 00:00 | SDFN |

| Report Start Date | Report End Date | 24hr Activity Summary |
|---|---|---|
| 8/12/2014 | 8/13/2014 | hang horse head/RDMO |

| Start Time | End Time | Comment |
|---|---|---|
| 00:00 | 06:00 | SDFN |
| 06:00 | 07:00 | Crew travel & safety mtg |
| 07:00 | 08:30 | Unit would not roll over, bridal horse head |
| 08:30 | 12:00 | RD rig, & wrap lines, rack out mud tank & pump, clean up location, load equipment. PWOP @ 12:00 w/144 SL @ 5 SPM |

NEWFIELD

# Summary Rig Activity

**Well Name: GMBU K-6-9-16**

| Start Time | End Time | Comment |
|---|---|---|
| 12:00 | 00:00 | SDFN |